Access DB# 96978

SEARCH REQUEST FORM

	cientific and Technic	cal Inf rmation Center	A Committee of the Comm
Requester's Full Name: Art Unit: 1638 Phone I Mail Box and Bldg/Room Location	Number 306 - 582	Z Serial Number: 191	te: 6/18/03 100478 PER DISK E-MAI
			∕ .
If more than one search is subm	nitted, please priorit	ize searches in order of need.	******
Please provide a detailed statement of the Include the elected species or structures, lutility of the invention. Define any terms known. Please attach a copy of the cover	ceywords, synonyms, acre that may have a special r	onyms, and registry numbers, and combine aning. Give examples or relevant cita	ne with the concept or
Title of Invention:			
Inventors (please provide full names):			
Earliest Priority Filing Date:			
For Sequence Searches Only Please inclu	de all pertinent information	(parent, child, divisional, or issued patent	numbers) along with the
appropriate serial number.			
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		Reference Librarian Biotechnology & Chemical Lib CM1 1E07 - 703-308-4498 jan.delaval@uspto.gov	fary
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STAFF USE ONLY	Type of Search	Vendors and cost where a	pplicable
Searcher: 449C	NA Sequence (#)	STN	
Searcher Phone #:	AA Sequence (#) Structure (#)	Dialog	
Date Searcher Picked Up: 4 15 5	Bibliographic	Questel/Orbit Dr.Link	
Date Completed: 6 1913	Litigation	Lexis/Nexis	
Searcher Prep & Review Time:	Fulltext	Sequence Systems	
Clerical Pren Time:	Detent Family	1171711717	

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T 30

WEST Search History

DATE: Thursday, June 19, 2003

Set Name side by side	Query	Hit Count	Set Name result set
·	T,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ	•	resure see
L9	(Ducick, J)[in]	1	L9
L8	peroxidase-like and ((800/279)!.CCLS.)	1	L8
DB=USP	T; PLUR=YES; OP=ADJ		
L7	peroxidase-like and ((800/279)!.CCLS.)	0	L7
DB = USP	T,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ	,	
L6	peroxidase and ((800/279)!.CCLS.)	121	L6
L5	L3 and (Duvick, J)[in]	0	L5
L4	L3 and ((Duvick, J)[in])	0	L4
L3	L1 and maize	96	L3
L2	L1 and peroxidase-like	1	L2
L1	peroxidase and ((800/279)!.CCLS.)	121	L1

END OF SEARCH HISTORY

(FILE 'HOME' ENTERED AT 18:46:07 ON 19 JUN 2003)

FILE 'CAPLUS, BIOSIS, MEDLINE, EUROPATFULL, AGRICOLA, CAOLD, CASREACT, CROPU, DGENE, DPCI, ENCOMPPAT2, FSTA, IFIPAT, INPADOC, JAPIO, NTIS, PAPERCHEM2, PATDD, PATDPA, PATDPAFULL, PATOSDE, PATOSEP, PATOSWO, PCTFULL, PCTGEN, PIRA, RAPRA, RDISCLOSURE, SYNTHLINE, ..' ENTERED AT

	18:49:05 ON 19 JUN 2003
L1	53 S PEROXIDASE (W)LIKE AND (RESISTAN? OR TOLERAN?) AND MAIZE
L2	3 S L1 NOT PY>2001
L3	3609 S PEROXIDASE AND (RESISTAN? OR TOLERAN?) AND MAIZE
L4	1547 S L3 AND (TRANSGENIC OR TRANSFORM?) (2A) PLANT
L5	925 S L4 AND PATHOGEN?
L6	474 S L5 NOT PY>2001
L7	474 DUP REM L6 (0 DUPLICATES REMOVED)
L8	51 S L7 AND PEROXIDASE (2A) (GENE OR NUCLEIC (W) ACID OR NUCLEO

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ANSWER 3 OF 51 EUROPATFULL COPYRIGHT 2003 WILA
L8
PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET
       1018553 EUROPATFULL ED 20000723 EW 200028 FS OS
AN
       Transgenic plants with divergent SCaM4 or SCaM5 gene
TIEN
       to achieve multiple disease resistance.
       Transgene Pflanzen mit divergenten SCaM-4 und SCaM-5 Genen zur
TIDE
       Etablierung multipler Krankheitsresistenz.
       Plantes transgeniques avec les genes divergents SCaM4 et SCaM5 pour
TIFR
       obtenir une resistance aux maladies multiples.
       Heo, Won-Do, 183-3, Seonin-dong, Sacheon City, Kyungsangnam-do, KR;
IN
       Cho, Moo-Je, 297-51, Sandae-dong, Jinju-city, Kyungsangnam-do, KR;
       Song, Pill-Soon, 102-906, Shindonga-apartment, 756-2, Weolgae-dong,
       Kwangsan-gu, Kwangju-city, KR;
       Chung, Chang-Ho, 100-1003, Hyundai-apartment; 572, Hwajung-dong, Seo-qu,
       Kwangju-city, KR
       Korea Kumho Petrochemical Co. Ltd., 70, Seolin-dong, Chongno-Gu, Seoul,
PA
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SO
       R AT; R BE; R CH; R CY; R DE; R DK; R ES; R FI; R FR; R GB; R GR; R IE;
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       EP 1999-300136
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IC
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       ICS C12N015-82
                           C12N005-10
                                          C07K014-415
      ANSWER 12 OF 51 DGENE (C) 2003 THOMSON DERWENT
L8
                          DGENE
AN
      AAF90225 DNA
     Novel gene encoding peroxidase P7X protein, and its
TI
      promoter, useful for producing transgenic plants that
      are resistant against nematode infections
      Padegimas L S; Reichert N A
IN
                  UNIV MISSISSIPPI STATE.
PA
      (UMIS)
                                               34p
      WO 2001038485 A2 20010531
PΙ
      WO 2000-US30159 20001124
ΑI
     US 1999-167229
                       19991124
PRAI
DT
      Patent
LA
      English
      2001-355920 [37]
OS
     Genomic walking primer used to isolate peroxidae P7X gene promoter.
DESC
                                   COPYRIGHT 2003 Univentio
       ANSWER 18 OF 51
                         PCTFULL
L8
       2001038485 PCTFULL ED 20020820
AN
       NEMATODE-UPREGULATED PEROXIDASE GENE AND PROMOTER
TIEN
       FROM NEMATODE-RESISTANT MAIZE LINE Mp307
       GENE DE PEROXYDASE A REGULATION DES NEMATODES ET PROMOTEUR TIRE D'UNE
TIFR
       LIGNEE DE MAIS Mp307 RESISTANT AUX NEMATODES
       PADEGIMAS, Linas, S.;
IN
       REICHERT, Nancy, A.
       MISSISSIPPI STATE UNIVERSITY
PA
DT
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                            A2 20010531
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       WO 2001038485
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                   ZA ZW GH GM KE LS MW MZ SD SL SZ TZ UG ZW AM AZ BY KG KZ MD
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PRAI
       US 1999-60/167,229
       ANSWER 36 OF 51
                        PCTFULL
                                   COPYRIGHT 2003 Univentio
L8
       1998056921 PCTFULL ED 20020514
AN
       REGULATORY SEQUENCES FOR TRANSGENIC PLANTS
TIEN
       SEQUENCES REGULATRICES POUR PLANTES TRANSGENIQUES
TIFR
       AINLEY, Michael;
IN
       ARMSTRONG, Katherine;
       BELMAR, Scott;
       FOLKERTS, Otto;
       HOPKINS, Nicole;
       MENKE, Michael, A.;
       PAREDDY, Dayakar;
       PETOLINO, Joseph, F.;
       SMITH, Kelley;
       WOOSLEY, Aaron
       DOW AGROSCIENCES LLC
PΑ
       English
LA
DT
       Patent
                            A1 19981217
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       WO 9856921
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                   UA UG UZ YU ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD
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                            A 19980610
       WO 1998-US11921
AΙ
       US 1997-60/049,752
                               19970612
PRAI
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ICM
ICS
       C12N015-82; A01H005-00
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     18:49:05 ON 19 JUN 2003
             53 S PEROXIDASE (W)LIKE AND (RESISTAN? OR TOLERAN?) AND MAIZE
L1
              3 S L1 NOT PY>2001
L2
           3609 S PEROXIDASE AND (RESISTAN? OR TOLERAN?) AND MAIZE
L3
           1547 S L3 AND (TRANSGENIC OR TRANSFORM?) (2A) PLANT
L4
            925 S L4 AND PATHOGEN?
L5
            474 S L5 NOT PY>2001
Ь6
            474 DUP REM L6 (0 DUPLICATES REMOVED)
L7
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51 S L7 AND PEROXIDASE (2A) (GENE OR NUCLEIC (W) ACID OR NUCLEO

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=> d all 3
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- L18 ANSWER 3 OF 3 BIOTECHNO COPYRIGHT 2003 Elsevier Science B.V.
- AN 1995:02594564 BIOTECHNO
- TI Embryogenic callus production, plant regeneration and transient gene expression following particle bombardment in the pasture grass, Cenchrus ciliaris (Gramineae)
- AU Ross A.H.; Manners J.M.; Birch R.G.
- CS Univ.Qld, Dept Bot., Brisbane, QLD 4072, Australia.
- SO Australian Journal of Botany, (1995), 43/2 (193-199) CODEN: AJBTAP ISSN: 0067-1924
- DT Journal; Article
- LA English
- CT *Cenchrus ciliaris

=> fil biosis

FILE 'BIOSIS' ENTERED AT 13:10:24 ON 19 JUN 2003 COPYRIGHT (C) 2003 BIOLOGICAL ABSTRACTS INC. (R)

FILE COVERS 1969 TO DATE.

CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 11 June 2003 (20030611/ED)

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- L8 ANSWER 2 OF 2 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
- AN 1995:354922 BIOSIS
- DN PREV199598369222
- TI Embryogenic callus production, plant regeneration and transient gene expression following particle bombardment in the pasture grass, Cenchrus ciliaris (Gramineae.
- AU Ross, Annette H.; Manners, John M.; Birch, Robert G. (1)
- CS (1) Dep. Botany, Univ. Queensland, Brisbane, QLD 4072 Australia
- SO Australian Journal of Botany, (1995) Vol. 43, No. 2, pp. 193-199. ISSN: 0067-1924.
- DT Article
- LA English
- Callus initiated from surface sterilised, mature seeds of buffel grass (Cenchrus ciliaris L.) gave rise to an embryogenic form when cultured on Murashige and Skoog's nutrient medium supplemented with 3% sucrose, 5% coconut water and 4 mg L-1 2,4-D. Multiple green shoots regenerated on 20% to 50% of embryogenic calli after transfer to hormone-free medium and incubation in the light. Variations in cytokinin concentration and light intensity during regeneration did not significantly increase the regeneration frequency or the number of shoots produced. Regenerated plants developed normally when transplanted to soil. A high frequency of transient expression of the beta-glucuronidase gene resulted following transfer into embryogenic callus by particle bombardment. This is a promising system for production of transformed buffel grass plants, if the frequency of shoot production can be increased.
- CC Genetics and Cytogenetics Plant *03504

Ecology; Environmental Biology - Plant *07506

Biochemical Methods - Nucleic Acids, Purines and Pyrimidines *10052

Biochemical Studies - General 10060

Biochemical Studies - Carbohydrates 10068

Nutrition - General Studies, Nutritional Status and Methods 13202

Nutrition - Carbohydrates 13220

Developmental Biology - Embryology - Morphogenesis, General 25508

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Tissue Culture, Apparatus, Methods and Media *32500
      Plant Physiology, Biochemistry and Biophysics - Nutrition
      Plant Physiology, Biochemistry and Biophysics - Growth, Differentiation
      *51510
      Plant Physiology, Biochemistry and Biophysics - Reproduction *51512
      Plant Physiology, Biochemistry and Biophysics - Growth Substances
      Plant Physiology, Biochemistry and Biophysics - Apparatus and Methods
      *51524
     Agronomy - Forage Crops and Fodder *52506
     Soil Science - Fertility and Applied Studies
                                                      *52807
 BC
     Gramineae *25305
 ΙT
     Major Concepts
         Agronomy (Agriculture); Development; Ecology (Environmental Sciences);
         Genetics; Methods and Techniques; Reproduction
IT
     Chemicals & Biochemicals
         2,4-D; SUCROSE
     Miscellaneous Descriptors
TΤ
         COCONUT WATER; CULTURE METHOD; DNA TRANSFER METHOD; GENETIC
        TRANSFORMATION; LIGHT INTENSITY; MURASHIGE AND SKOOG MEDIUM;
        REGENERATION; SHOOT PRODUCTION INCREASE; SUCROSE; TRANSPLANTING; 2,4-D
ORGN Super Taxa
        Gramineae: Monocotyledones, Angiospermae, Spermatophyta, Plantae
ORGN Organism Name
          Cenchrus ciliaris (Gramineae)
ORGN Organism Superterms
        angiosperms; monocots; plants; spermatophytes; vascular plants
RN
     94-75-7 (2,4-D)
     57-50-1 (SUCROSE)
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     (FILE 'HOME' ENTERED AT 12:59:48 ON 19 JUN 2003)
                SET COST OFF
     FILE 'HCAPLUS' ENTERED AT 13:00:57 ON 19 JUN 2003
                E ROSS A/AU
T.1
             88 S E3, E14, E16
           1010 S ROSS A?/AU
L2
             2 S L2 AND BUFFEL
L3
L4
              2 S L2 AND (CENCHRUS OR CILIARIS)
L5
              7 S L2 AND PEROXIDASE
1.6
              1 S L5 AND L3, L4
     FILE 'HCAPLUS' ENTERED AT 13:03:23 ON 19 JUN 2003
     FILE 'BIOSIS' ENTERED AT 13:03:35 ON 19 JUN 2003
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           1504 S ROSS A?/AU
L8
              2 S L7 AND (CENCHRUS OR CILIARIS OR BUFFEL GRASS)
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              4 S L7 AND PEROXIDASE
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            163 S. ROSS A?/AU
L15
              3 S L14 AND (CENCHRUS OR CILIARIS OR BUFFEL OR PEROXIDASE)
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FILE 'BIOTECHDS' ENTERED AT 13:07:10 ON 19 JUN 2003

E ROSS A/AU

L16 30 S E3, E6

FILE 'BIOTECHNO' ENTERED AT 13:08:27 ON 19 JUN 2003

E ROSS A/AU

L17 253 S E3-E20

L18 3 S L17 AND (CENCHRUS OR CILIARIS OR BUFFEL OR PEROXIDASE)

FILE 'BIOTECHNO' ENTERED AT 13:10:12 ON 19 JUN 2003

FILE 'BIOSIS' ENTERED AT 13:10:24 ON 19 JUN 2003

FILE 'CROPB, CROPU' ENTERED AT 13:12:10 ON 19 JUN 2003

E ROSS A/AU

L19 13 S E3-E5

FILE 'LIFESCI' ENTERED AT 13:14:11 ON 19 JUN 2003

E ROSS A/AU

L20 203 S ROSS A?/AU

L21 0 S L20 AND (CENCHRUS OR CILIARIS OR BUFFEL OR PEROXIDASE)

Connecting via Winsock to Dialog

Logging in to Dialog

Trying 31060000009999...Open

DIALOG INFORMATION SERVICES
PLEASE LOGON:

ENTER PASSWORD:

Welcome to DIALOG

Dialog level 02.15.02D

Last logoff: 29oct02 08:54:53 Logon file001 19jun03 12:22:01 *** ANNOUNCEMENT ***

--File 581 - The 2003 annual reload of Population Demographics is complete. Please see Help News581 for details.

--File 156 - The 2003 annual reload of ToxFile is complete. Please see HELP NEWS156 for details.

* * *

- --File 990 NewsRoom now contains February 2003 to current records. File 992 NewsRoom 2003 archive has been newly created and contains records from January 2003. The oldest months's records roll out of File 990 and into File 992 on the first weekend of each month. To search all 2003 records BEGIN 990, 992, or B NEWS2003, a new OneSearch category.
- --Connect Time joins DialUnits as pricing options on Dialog. See HELP CONNECT for information.
- --CLAIMS/US Patents (Files 340,341, 942) have been enhanced with both application and grant publication level in a single record. See HELP NEWS 340 for information.
- --SourceOne patents are now delivered to your email inbox as PDF replacing TIFF delivery. See HELP SOURCE1 for more information.
- --Important news for public and academic libraries. See HELP LIBRARY for more information.
- --Important Notice to Freelance Authors--See HELP FREELANCE for more information

NEW FILES RELEASED

***World News Connection (File 985)

***Dialog NewsRoom - 2003 Archive (File 992)

***TRADEMARKSCAN-Czech Republic (File 680)

***TRADEMARKSCAN-Hungary (File 681)

***TRADEMARKSCAN-Poland (File 682)

UPDATING RESUMED

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          1 AU=ROSS, ARTHUR MELVIN
E45
          1 AU=ROSS, ARTHUR REYNOLD, JR.
E46
          1 AU=ROSS, ARTHUR WILLIAM
E47
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23°

12.

1 AU=ROSS, B. JOHN

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- 1 AU=ROSS, ANDREW MICHAEL
- 1 AU=ROSS, ANDREW PHILLIP
- 1 AU=ROSS, ANDREW RONALD
- 1 AU=ROSS, ANDREW ROY SEYWARD
- 1 AU=ROSS, ANDREW SMITH
- 1 AU=ROSS, ANDREW T.
- 1 AU=ROSS, ANDREW W.
- 1 AU=ROSS, ANDREW WILLIAM
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- 1 AU=ROSS, ARON DAVID
- 1 AU=ROSS, ARTHUR HOWARTH MACNEAL
- 1 AU=ROSS, ARTHUR L.
- 1 AU=ROSS, ARTHUR LARRY
- 1 AU=ROSS, ARTHUR M.
- 1 AU=ROSS, ARTHUR M., JR.
- 1 AU=ROSS, ARTHUR MAX
- 1 AU=ROSS, ARTHUR MELVIN
- 1 AU=ROSS, ARTHUR REYNOLD, JR.
- 1 AU=ROSS, ARTHUR WILLIAM

S1 47 E4-E47

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1 AU=ROSS, ARNOLD LESTER, JR.
               1 AU=ROSS, ARON
               1 AU=ROSS, ARON DAVID
               1 AU=ROSS, ARTHUR HOWARTH MACNEAL
               1 AU=ROSS, ARTHUR L.
               1 AU=ROSS, ARTHUR LARRY
               1 AU=ROSS, ARTHUR M.
               1 AU=ROSS, ARTHUR M., JR.
               1 AU=ROSS, ARTHUR MAX
               1 AU=ROSS, ARTHUR MELVIN
               1 AU=ROSS, ARTHUR REYNOLD, JR.
               1 AU=ROSS, ARTHUR WILLIAM
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? s s1 and (cenchrus or ciliaris or buffel or grass? or peroxidase?)
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              32 CILIARIS
               5 BUFFEL
            6600 GRASS?
            2468 PEROXIDASE?
      S2
                  S1 AND (CENCHRUS OR CILIARIS OR BUFFEL OR GRASS? OR
                  PEROXIDASE?)
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                  GENE
           23112 GENES
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                S1 AND (GENE OR GENES)
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Visualisation et optimisation des effets des vac damps sur le champ
vectoriel d'intensite acoustique d'une structure soumise a des impacts
repetes (French text)
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Author: %%%Ross, Annie%%%

8 3 m.

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Author: %%%Ross, Andrew Ronald%%%

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Set Items Description

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              9 S L10,L11 AND L1-L11
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AN
     The Genuine Article (R) Number: RY206
GA
    MOLECULAR-CLONING AND CHARACTERIZATION OF
                                                 ***PEROXIDASES FROM
TΙ
    BUFFEL GRASS (CENCHRUS-CILIARIS L)
    ROSS A H; MANNERS J M; BIRCH R G (Reprint)
ΑU
    UNIV QUEENSLAND, DEPT BOT, BRISBANE, QLD 4072, AUSTRALIA (Reprint); UNIV
CS
     QUEENSLAND, DEPT BOT, BRISBANE, QLD 4072, AUSTRALIA; UNIV QUEENSLAND,
     COOPERAT RES CTR TROP PLANT PATHOL, BRISBANE, QLD 4072, AUSTRALIA
CYA AUSTRALIA
    PLANT SCIENCE, (01 SEP 1995) Vol. 110, No. 1, pp. 95-103.
    ISSN: 0168-9452.
    Article; Journal
DT
FS
    LIFE: AGRI
LA
    ENGLISH
REC Reference Count: 42
       Buffel grass (Cenchrus ciliaris
AB
    L.) peroxidase cDNAs were isolated by hybridisation to an
    oligonucleotide from a conserved region of all plant peroxidases
     and a peroxidase cDNA clone from wheat, The 36 clones isolated
    were classified into one homogenous and three apparently heterogenous
     groups by cross-hybridisation and sequence homologies. Nine cDNAs were
     subcloned, partially sequenced and identified as peroxidase
     homologues by the presence of conserved sequences. Two full-length clones
     (PX7 and PX18) were completely sequenced and the deduced protein sequences
     revealed between 38% and 77% homology to other plant peroxidases
     . The mRNAs corresponding to five peroxidase cDNAs were analysed
    by northern analysis, to test for tissue specific or wound inducible
     expression. The peroxidases encoded by three clones, including
     PX7 and PX18, were expressed preferentially in leaves. The other two
     clones showed a marked wound response in leaves. No clone was strongly
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expressed in stems. Southern blot analysis indicated that PX18 is coded

for by a single copy gene, whereas PX7 is represented in the buffel grass genome by five or six copies. This indicates the complexity of the buffel grass peroxidase gene family with respect to identification of peroxidase genes implicated in defence or developmental lignification.

CC PLANT SCIENCES

Doforongod Author

ST Author Keywords: MOLECULAR CLONING; PEROXIDASE GENE FAMILY; BUFFEL GRASS; CENCHRUS CILIARIS;
TISSUE SPECIFIC; WOUND INDUCIBLE

IVone I VOI I DC

STP KeyWords Plus (R): INDUCED PUTATIVE **PEROXIDASE**; HIGHLY ANIONIC **PEROXIDASE**; TRITICUM-AESTIVUM L; SEQUENCE ALIGNMENT; PHYLOGENETIC TREES; CDNA; PLANTS; INDUCTION; WHEAT; GENES

RF 93-4826 002; PHYLOGENETIC POSITION; 18S RIBOSOMAL-RNA GENE SEQUENCE;
ANAEROBIC THERMOPHILIC BACTERIA
93-4847 002; HETEROLOGOUS EXPRESSION; CHROMOSOMAL DNA; GENE ENCODING
METHYLMALONYL-COENZYME-A MUTASE
93-0359 001; RUMINAL FERMENTATION; INSULIN ACTION IN TYPE-2
(NON-INSULIN-DEPENDENT) DIABETES-MELLITUS; BEEF STEERS; DIGESTA KINETICS;
LACTATING DAIRY-COWS

93-1177 001; RANDOM AMPLIFIED POLYMORPHIC DNA MARKERS; RFLP-BASED LINKAGE MAP; RAPD GENOTYPING COSTS

I Poforongod Work

RE

Referenced Author (RAU)	(RPY)	(RVL)	(RPG)	(RWK)	
AUSUBEL F M BARCELO A R BATE N J	1990		+ 	CURRENT PROTOCOLS MO	
BARCELO A R	1989	63	31	PLANT SCI	
BATE N J	1994	191	7608	P NATL ACAD SCI USA	
BREDA C	1993	12	1268	PLANT CELL REP	
BUFFARD D	1990	187	18874	P NATL ACAD SCI USA	
CAMPA A	1991	12	125	PEROXIDASES CHEM BIO	
CAVAYE J	11991	1	1	BUFFEL BOOK GUIDE BU	
CHIRGWIN J M	11979	18	5294	BIOCHEMISTRY-US	
DOYLE J J	11990	12	13	FOCUS	
FENG D F	11987	25	351	J MOL EVOL	
FUJIYAMA K	11988	173	681	EUR J BIOCHEM	
	11979			NUCLEIC ACIDS RES	
GREPPIN H	1986			MOL PHYSL ASPECTS PL	
HALPIN C	11994		-	PLANT J	
HIGGINS D G	11992	18	-	COMPUT APPL BIOSCI	
JOHANSSON A	11992	118	11151	LPLANT MOL BIOL	
JOSHI C P	11987	i 15	19627	NUCLEIC ACIDS RES	
KAWAOKA A	11994	i 13	149	PLANT CELL REP	
				PLANT PHYSIOL	
	•	•	•	SCIENCE	
	11993		•	•	
LUTCKE H A	11987		•	EMBO J	
LIU T T Y LUTCKE H A MINSON D J MINSON D J	•	•	•	FORAGE RUMINANT NUTR	
MINSON D J	11980			GRAZING ANIMALS	
NI W	11994	13	1120	TRANSGENIC RES	
REBMANN G				PLANT MOL BIOL	
		•		PLANT PHYSIOL	
	11993		•	PLANT PHYSIOL	
ROBERTS E	1989			MOL GEN GENET	
ROBERTS E	11988			PLANT MOL BIOL	
ROSS A H	11995	143		AUST J BOT	<
ROTHSTEIN S J	1989			OXFORD SURVEYS PLANT	
SAITOU N	1987		•	MOL BIOL EVOL	
SAMBROOK J	11989	•		MOL CLONING LABORATO	
SANGER F	11977			P NATL ACAD SCI USA	
SCHWEIZER P	11989			PLANT MOL BIOL	
TEDACHIMA M	11993			FORAGE CELL WALL STR	
SANGER F SCHWEIZER P TERASHIMA N	11773	I	1241	LIOIGIGE CEDE WATER SIK	

VANHUYSTEE R B	1991 2	1155	PEROXIDASES CHEM BIO
VONHEIJNE G	1990 115	1195	J MEMBRANE BIOL
WALTER M H	1992	1	PLANT GENE RES GENES
WELINDER K G	1992 2	1388	CURR OPIN STRUCT BIO
WOODS D	11984 6	11	I FOCUS

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- AN 95:446305 SCISEARCH
- GA The Genuine Article (R) Number: RE730
- TI EMBRYOGENIC CALLUS PRODUCTION, PLANT-REGENERATION AND TRANSIENT GENE-EXPRESSION FOLLOWING PARTICLE BOMBARDMENT IN THE PASTURE GRASS, CENCHRUS-CILIARIS (GRAMINEAE)
- AU ROSS A H; MANNERS J M; BIRCH R G (Reprint)
- CS UNIV QUEENSLAND, DEPT BOT, ST LUCIA, QLD 4072, AUSTRALIA (Reprint); UNIV QUEENSLAND, DEPT BOT, ST LUCIA, QLD 4072, AUSTRALIA; UNIV QUEENSLAND, CRC TROP PLANT PATHOL, ST LUCIA, QLD 4072, AUSTRALIA
- CYA AUSTRALIA
- SO AUSTRALIAN JOURNAL OF BOTANY, (1995) Vol. 43, No. 2, pp. 193-199. ISSN: 0067-1924.
- DT Article; Journal
- FS AGRI
- LA ENGLISH
- REC Reference Count: 19
- AB Callus initiated from surface sterilised, mature seeds of buffel grass (Cenchrus ciliaris L.)

gave rise to an embryogenic form when cultured on Murashige and Skoog's nutrient medium supplemented with 3% sucrose, 5% coconut water and 4 mg L(-1) 2,4-D. Multiple green shoots regenerated on 20% to 50% of embryogenic calli after transfer to hormone-free medium and incubation in the light. Variations in cytokinin concentration and light intensity during regeneration did not significantly increase the regeneration frequency or the number of shoots produced. Regenerated plants developed normally when transplanted to soil. A high frequency of transient expression of the beta-glucuronidase gene resulted following transfer into embryogenic callus by particle bombardment. This is a promising system for production of transformed **buffel grass** plants, if the frequency of shoot production can be increased.

CC PLANT SCIENCES

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- STP KeyWords Plus (R): CULTURED IMMATURE INFLORESCENCES; MICROPROJECTILE BOMBARDMENT; TRANSGENIC PLANTS; SOMATIC EMBRYOGENESIS; TISSUE-CULTURE; CELLS; TRANSFORMATION
- RF 93-2518 001; TRANSGENIC TOBACCO; TRANSIENT EXPRESSION OF GUS REPORTER GENE; PARTICLE BOMBARDMENT; STABLE TRANSFORMATION; PLANT MERISTEMS; IMMATURE EMBRYOS

93-5740 001; SOMATIC EMBRYOGENESIS; ADVENTITIOUS SHOOT FORMATION; ANTHER CULTURE; INTERSPECIFIC ARACHIS HYBRIDS; FIELD PERFORMANCE; HYPOCOTYL PROTOPLASTS

RE Referenced Author (RAU)	(RPY) (RVL) (PG Referenced Work (RPG) (RWK)
AHN B J AKASHI R BIRCH R G BOWER R CAVAYE J CHERNEY J H CHRISTOU P FRANKS T GORDONKAMM W J HARTMAN C L KACKAR A KLEIN T M	1985 25	1107 CROP SCI 213 PLANT SCI 453 AUST J PLANT PHYSIOL 409 PLANT J BUFFEL BOOK GUIDE BU 157 ADV AGRON 157 BIO-TECHNOL 471 AUST J PLANT PHYSIOL 1503 PLANT CELL 1509 1500-TECHNOL 1500 1500-TECHNOL 1500 1500-TECHNOL 1500-TECHNOL 1500-TECHNOL 1500-TECHNOL 1500-TECHNOL 1500-TECHNOL 1500-TECHNOLOGY

LAST D I	1991	81	581	THEOR APPL GENET
MURASHIGE T	11962	15	473	PHYSL PLANTARUM
OZIASAKINS P	11988	73	565	PHYSIOL PLANTARUM
SANKHLA A	11989	58	872	CURR SCI INDIA
VASIL V	1991	19	743	BIOTECHNOLOGY
WANG Z Y	11992	10	691	BIO-TECHNOL
ZHONG H	1993	13	1	PLANT CELL REP

=> d all tot 113

- L13 ANSWER 1 OF 7 SCISEARCH COPYRIGHT 2003 THOMSON ISI
- AN 2002:801193 SCISEARCH
- GA The Genuine Article (R) Number: 595GM
- TI Optimizing embryogenic callus production and plant regeneration from 'Tifton 9' bahiagrass seed explants for genetic manipulation
- AU Grando M. F; Franklin C I; Shatters R G (Reprint)
- CS Univ Florida, Dept Agron, POB 110300, Gainesville, FL 32611 USA (Reprint); Univ Florida, Dept Agron, Gainesville, FL 32611 USA; ARS, USDA, USHRL, Ft Pierce, FL 34945 USA; Savannah State Univ, Dept Biol, Savannah, GA 31404 USA
- CYA USA
- SO PLANT CELL TISSUE AND ORGAN CULTURE, (DEC 2002) Vol. 71, No. 3, pp. 213-222.

Publisher: KLUWER ACADEMIC PUBL, VAN GODEWIJCKSTRAAT 30, 3311 GZ DORDRECHT, NETHERLANDS.

- ISSN: 0167-6857.
- DT Article; Journal
- LA English

AB

- REC Reference Count: 47
 - Bahiagrass (Paspalum notatum Flugge) is a warm season forage grass widely cultivated in southeastern U.S. and South America. The cultivar Tifton 9 has several desirable characteristics such as high forage yield, more vigor at the seedling stage, etc.; but its forage quality is very low. As an initial step for future genetic manipulations to improve its forage characteristics, we have optimized in vitro culture conditions for plant regeneration. In this report, we describe an efficient method for embryogenic callus induction and plant regeneration from bahiagrass (cv. Tifton 9) seed explants, which are readily available and easy to manipulate, compared to other explant sources reported in the literature.

Murashige and Skoog (MS) medium containing 30 muM dicamba and 5 muM 6-benzyladenine (BA) was optimal for callus induction and growth. Out of 9734 seeds cultured, 65.7% germinated and 21.4% produced embryogenic callus on this medium. Shoot formation was best when embryogenic calluses induced in this medium were transferred to MS medium supplemented with 5 muM BA and 1 muM gibberellic acid with 1640 plantlets formed per gram fresh weight of callus tissue. When transferred to hormone-free SH medium, shoot systems produced well-developed root systems. The resulting plantlets grew normally produced viable seeds when transferred to soil in the greenhouse. Histochemical staining for GUS activity arising from transient expression of the introduced uidA (beta-glucuronidase) gene indicated that bahiagrass embryogenic callus produced by this method is suitable for gene transfer via biolistic bombardment; and it can serve as a good target tissue for future genetic manipulations to improve the forage quality of bahiagrass (cv. Tifton 9).

- CC BIOTECHNOLOGY & APPLIED MICROBIOLOGY; PLANT SCIENCES
- ST Author Keywords: forage **grass**; monocot; Paspalum notatum Flugge; somatic embryos; tissue culture
- STP KeyWords Plus (R): TRANSGENIC SUGARCANE PLANTS; AGROSTIS-PALUSTRIS HUDS; POA-PRATENSIS L; SOMATIC EMBRYOGENESIS; MICROPROJECTILE BOMBARDMENT; KENTUCKY BLUEGRASS; PASPALUM-NOTATUM; TISSUE-CULTURE; 2,4-DICHLOROPHENOXYACETIC ACID; PARTICLE BOMBARDMENT

RE Referenced Author	lYear	l VOL	l PG	Referenced Work	
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AKASHT R	=+==== 11993	+==== 190	+===== 173	-+====================================	
AKASHI R	11992	182	1219	IPLANT SCI	
BERLYN G P	11976	İ	130	BOT MICROTECHNIQUE C	
BHASKARAN S	i1989	164	217	ANN BOT-LONDON	
BHASKARAN S	1990	30	1328	CROP SCI	,
BOVO O A	11986	124	481	J PLANT PHYSIOL	
BOVO O A	1989	65	217	PLANT SCI	
BOWER R	1992	12	409	PLANT J	
BURTON G W	1989	129	11326	CROP SCI	
CARDONA C A	1997	37	1297	CROP SCI	
CHEN Z H	1995	14	354	PLANT CELL REP	<
CHO M J	1999	1148	9	PLANT SCI	
CHRISTENSEN A H	11996	15	213	TRANSGENIC RES	
CHRISTENSEN A H	1992	18	675	PLANT MOL BIOL	
FRANKLIN C I	1990	9	443	PLANT CELL REP	
FRANKLIN C I	1991	24	199	PLANT CELL TISS ORG	
GALLOMEAGHER M	1996	36	1367	CROP SCI	
GAMBORG O L	11968	50	151	EXP CELL RES	
GENDY C	1996	15	1900	PLANT CELL REP	
GENOVESI D	1992	18	1189	IN VITRO CELL DEV	
GRIFFIN J D	1995	14	1721	PLANT CELL REP	<
JEFFERSON R A	11987	15	1387	PLANT MOL BIOL REP	
MAROUSKY E J	11990	120	125	PLANT CELL TISS ORG	
MURASHIGE T	11962	115	14/3	PHYSIOL PLANTARUM	
OZIASAKINS P	11005	1/3	1000	PHISIOL PLANTARUM	
RITALA A	11005	85 42	1102	LAUCH I DOM	<
ROSS A H	11000	143	1072	LOUDD COT	\ - -
SANKULA A	11072	150	1100	LCVN I BUT	
SCHENK K O	11972	134	11378	ICDOD SCI	
SHAILERS R G	11994	115	1322	IDIANT CELL RED	
SIVATANI E	11992	110	11589	IRIO-TECHNOL	
VANDERVALK P	11995	140	1101	IPLANT CELL TISS ORG	<
VANDERVALK P	11989	17	1644	IPLANT CELL REP	,
VARSHNEY A	11998	140	1137	IBTOL PLANTARUM	
VASIL I K	11988	16	1397	IBIOTECHNOLOGY	
VASIL V	11981	168	1864	IAM J BOT	
VASIL V	11992	10	1667	BIO-TECHNOL	
VITANOVA Z	1995	114	1437	PLANT CELL REP	<
WAN Y C	1994	104	37	PLANT PHYSIOL	
WAN Y	11995	196	7	PLANTA	<
WANG D	1982	25	147	PLANT SCI LETT	
WEIGEL R C	1985	15	151	PLANT CELL TISS ORG	
VASIL I K VASIL V VASIL V VITANOVA Z WAN Y C WAN Y WANG D WEIGEL R C WERNICKE W	1986	131	131	PROTOPLASMA	

|1993 |13

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|1992 |187

| PLANT CELL REP

| PLANT CELL REP

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ZHONG H

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|453

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L13 ANSWER 2 OF 7 SCISEARCH COPYRIGHT 2003 THOMSON ISI

AN 2001:975903 SCISEARCH

GA The Genuine Article (R) Number: 499AX

TI Forage and turf **grass** biotechnology

AU Wang Z Y (Reprint); Hopkins A; Mian R

CS Samuel Roberts Noble Fdn Inc, Forage Biotechnol Grp, Ardmore, OK 73401 USA (Reprint)

CYA USA

SO CRITICAL REVIEWS IN PLANT SCIENCES, (OCT 2001) Vol. 20, No. 6, pp. 573-619.

Publisher: CRC PRESS LLC, 2000 CORPORATE BLVD NW, JOURNALS CUSTOMER

SERVICE, BOCA RATON, FL 33431 USA.

ISSN: 0735-2689.

DT General Review; Journal

LA English

REC Reference Count: 404

AΒ

Forage and turf grasses are the backbone of sustainable agriculture and contribute extensively to the world economy. They play a major role in providing high quality and economical meat, milk, and fiber products and are important in soil conservation, environmental protection, and outdoor recreation. Conventional breeding contributed substantially to the genetic improvement of forage and turf grasses in the last century. The relatively new developments in genetic manipulation of these species open up opportunities for incorporating cellular and molecular techniques into grass improvement programs. For some commonly used forage and turf species, significant advances have been achieved in the following areas: (1) establishment of a tissue culture basis for the efficient regeneration of fertile and genetically stable plants, (2) generation of transgenic plants by biolistic transformation and direct gene transfer to protoplasts, (3) recovery of intergeneric somatic grass plants by protoplast fusion, (4) development of molecular markers for marker assisted selection, and (5) sequencing of expressed sequenced tags and the development of DNA array technologies for gene discovery. Although difficulties still exist in genetic manipulation of these recalcitrant monocot species, impressive progress has been made toward the generation of value-added novel grass germplasm incorporating traits such as improved forage quality. The joint efforts of molecular biologists and plant breeders make the available biotechnological methods a useful tool for accelerating forage and turf grass improvement.

CC PLANT SCIENCES

RE

ST Author Keywords: forage **grasses**; turf **grasses**; tissue culture; plant regeneration; genetic transformation; transgenic plants; somatic hybrids; molecular markers

STP KeyWords Plus (R): FESTUCA-ARUNDINACEA SCHREB; LOLIUM-PERENNE L;
CELL-SUSPENSION-CULTURES; DIRECT GENE-TRANSFER; AGROSTIS-PALUSTRIS HUDS;
PANICUM-MAXIMUM JACQ; POA-PRATENSIS L; PENNISETUM-PURPUREUM SCHUM;
KENTUCKY BLUEGRASS CULTIVARS; ASYMMETRIC SOMATIC HYBRIDIZATION

Referenced Author (RAU)	(RPY)	(RVL)	(RPG)	•	
AHN S	1985 1993 1987 1992 1993 1992	23 15 25 241 27 82 90 82 41	449 1107 483	PLANT BREEDING CROP SCI CROP SCI CROP SCI MOL GEN GENET CROP SCI PLANT SCI PLANT SCI PLANT SCI JPN J BREED GENETICS	
ALDERSON J ALM V ALTPETER F ARCIONI S ARTUNDUAGA I R ARTUNDUAGA I R ASANO Y	1995 2000 1994 1983 1988 1989 1991 1990 1989 1994	 1113 32 12 12 25 79 172 8	64 327 33 13 753 247 267 141 243 261	GRASS VARIETIES US MOL BREEDING FORAGE PLANT BREEDING EUPHYTICA PLANT CELL TISSUE OR IN VITRO CELL DEV B PLANT SCI PLANT SCI PLANT CELL REP PLANT CELL REP J RANGE MANAGE	

ASAY K H	1985	25	575	CROP SCI	
ASAY K H	1989	15	1	CSSA SPEC PUBL HEREDITY HEREDITY	
BALFOURIER F	1994	73	386	HEREDITY	
BALFOURIER F	1994	72	55	HEREDITY	
BAN Y	1971	21	177	IB FAC AGR KAGASHIMA	
BANTE I	1990		105	IMPACT BIOTECHNOLOGY	
BARNES R F BEEVER D E BENNETZEN J L	1995	1	3	INTRO GRASSLAND AGR GRASSLAND OUR WORLD	<
BEEVER D E	1993		158	GRASSLAND OUR WORLD	
BEEVER D E BENNETZEN J L	1993	9	259	TRENDS GENET	
BERGELSON J	1999	ļ	325	APPL PLANT BIOTECHNO	
BERNARDVAILHE M A	1996	44	1164	J AGR FOOD CHEM J SCI FOOD AGR	
BERNARDVAILHE M A	1996	72	385	J SCI FOOD AGR	
BERT P F	1999	199	1445	THEOR APPL GENET	
DIATIA D T	11999	196	111676	IP NATL ACAD SCI USA	
BINGHAM T B	1995	12	21	FORAGES CROP SCI PLANT ANIMAL GENOME	<
BLANCHE F C	11986	126	11245	CROP SCI	
BLENDA A V	2001	19	1194	IPLANT ANIMAL GENOME	•
DODDENMETED J	11989	1103	1216	PLANT BREEDING	
		12		MOL BREEDING	
BOODEL A M	11986	1124	1481	LI PLANT PHYSIOL	
BOVO O A	11086	197	1246	IPLANT BREEDING	
BOVO O A BOYD L A BRUMMER E C	11003	186	1329	ITHEOR APPL GENET	
BUCKNER R C	1977	117	1672	CROP SCT	
BUCKNER R C	1983	133	1300	ICROP SCI	
BUCKNER R C BUXTON D R	11000	120	1553	CROP SCI CROP SCI CROP SCI	
BUXTON D R	11001	120	1553	BIO-TECHNOL	
CAETANOANOLLES G	11001	12	1304	IDI MOI RIOI REP	
CAETANOANOLLES G	11991	17	1224	TIME WIDECDICE COC DE	
CALLAHAN L M	11993	1 /	110	PL MOL BIOL REP INT TURFGRASS SOC RE CROP SCI	
CASLER M D	12000	140	11010	CROP SCI	
CASLER M D CHAI B L	12000	140	11019	LCDOD CCI	
CHAI B L	11998	138	11320	CROP SCI	
	11984	111/	114/	J PLANT PHYSIOL	
	11972	34	3/3	J ANIM SCI THEOR APPL GENET	
	11997	194	11038	THEOR APPL GENET	
CHARMET G		!	150	MOL BREED FOR CROPS	
CHARMET G	11993	140	177	GENET RES CROP EVOL	
CHARMET G	1994	187	1641	THEOR APPL GENET GENET RESOUR CROP EV	
	1994	41	11/5	GENET RESOUR CROP EV	
		129	1367	PLANT PHYSIOL BIOCH	
	1977	17	1847	CROP SCI CROP SCI	
	1979	119	117	CROP SCI	
CHEN C	1999	39	11676	CROP SCI	
CHEN C	1997	37	176	CROP SCI	
CHEN C	1998	97	255	THEOR APPL GENET	
CHERNEY J H	1991	46	157	ADV AGRON	
CHO M J	12000	19	1084	PLANT CELL REP	
CHRISTOU P	1992	2	275	PLANT J	
				PLANT SCI	
COLLINS F S	1998	18		GENOME RES	
CONGER B V	1978			CROP SCI	
				SCIENCE	
CREEMERSMOLENAAR J	1989	63	167	PLANT SCI	
CREEMERSMOLENAA.J	1988	57	165	PLANT SCI CROP SCI	
CDOUCUAN C C	11994	134	542	CROP SCI	
DAHLEEN L S	1990	179	139	THEOR APPL GENET	
	11980		73	Z PFLANZENPHYSIOL	
DALE P J	11981			PLANT CELL TISSUE OR	
T. 2 MOTIAN	11988	1132	170	J PLANT PHYSL	
DALTON S J	11999	18	721	PLANT CELL REP	
	11995		163	IPLANT SCI	<
DALTON S J		12	137	PLANT CELL TISSUE OR	
DALTON S J	1998		131	IPLANT SCI	
DELOZIER V		119		AGRONOMIE	

	DENCHEV P D	1997	16	813	PLANT CELL REP	
	DENCHEV P D	11995	140	143	IPLANT CELL TISS ORG	<
	DENCHEN D D	11001	134	11623	ICPOD SCI	-
	DENCILLY F D	11000	124	1023	LADIT ACCOM	
	DENCHEV P D DENCHEV P D DENCHEV P D DENCHEV P D DUNCAN R R DUSSLE C M DUVICK D N EAPEN S EBSKAMP M J M ECHENIQUE V EHLKE N J EICHHORN M M EIZENGA G C EIJAYL I EVANS D A FLADUNG M FOURNIER D FRAME B R FRANKLIN C I FROMM M E FUJIMORI M GABRIELSEN B C GALE M D GALLINET W C GAMBORG O L GARCIA A GAVIN A L GILLILAND T J GLEWEN K L GONZALES R A GRATTAPAGLIA D	11996	158	1201	ADV AGRON	
	DUSSLE C M	2001	9	İ	PLANT ANIMAL GENOME	
	DUVICK D N	1984	[15	GENETIC CONTRIBUTION	
	EAPEN S	11989	i 61	127	IPLANT SCT	
	EDCKAMD M T M	11994	112	1272	I DI OTECUNOI OCV	
	EDSKAPIF PI O PI	11006	112	1272	DIOIECTNOLOGI	
	ECHENIQUE V	11996	146	123	PLANT CELL TISS ORG	
	EHLKE N J	1986	26	1123	CROP SCI	
	EICHHORN M M	11986	126	835	CROP SCI	
	EIZENGA G C	11990	22	7	IPLANT CELL TISS ORG	
	EIZENCA C C	11001	151	1240	LEUDIVATON	
	EIZENGA G C	11221	127	1243	LEUPHILICA	
	EIZENGA G C	11989	32	3/3	GENOME	
	EUJAYL I	2001	}	}	IN PRESS THEOR APPL	
	EVANS D A	11989	15	146	TRENDS GENET	
	FLADING M	11986	13	1169	IPLANT CELL REP	
	EQUALIED D	11006	146	1166	IDIANE CELL ETCC ODC	
	FOURNIER D	11996	140	100	PLANI CELL IISS ORG	
	FRAME B R	1994	6	941	PLANT J	
	FRANKLIN C I	1990	19	443	PLANT CELL REP	
	FROMM M E	11986	1319	1791	INATURE	
	FILTIMORT M	2000	, I	152	IMOI BREED FOR CROPS	
	CARRIELGEN D. C.	11000	120	11212	LCDOD GCT	
	GABRIELSEN B C	11990	130	1212	CROP SCI	
	GALE M D	1998	195	1971	IP NATL ACAD SCI USA	
	GALLINET W C	1977	ļ	1	CORN CORN IMPROVEMEN	
	GAMBORG O L	11976	112	1473	IIN VITRO-J TISSUE CU	
	CAPCIA	11994	173	1355	ו אבסבטדייע	
	GANCIA A	11000	1100	1050	DEVENTED INC	
	GAVIN A L	11989	1103	1251	PLANT BREEDING	
	GILLILAND T J	1982	110	415	SEED SCI TECHNOL	
	GLEWEN K L	1984	24	137	CROP SCI	
	GONZALES R A	11987	123	I 581	IN VITRO CELL DEV	
	CDATTA DACITA D	11001	1127	11121	CENETICS	
	GRATIAFAGLIA D	11004	1100	1100	GENETICS	
	GRAY D J	11984	1777	1196	PROTOPLASMA	
	GUO D J	2001	13	73	PLANT CELL	
	GUPTA P K	11996	170	145	CURR SCI INDIA	
	GRATTAPAGLIA D GRAY D J GUO D J GUPTA P K GUTHRIDGE K M GYULAI G HA D B D	i-2001	i 9	1141	IPLANT ANIMAL GENOME	
	CVIII AT C	11002	111	1266	IDIANT CELL DED	
	GIODAI G	11000	1100	1200	LE DEL MEDIDINATA	
	HADBD	11982	108	31 <i>1</i>	Z PFLANZENPHYSIOL	
	HASB	11997	1 1 1	เคเบา	CPLANT CELL REP	
	HALBERG N	1990	105	89	PLANT BREEDING	
	HALPIN C	11994	16	1339	PLANT J	
	HALBERG N HALPIN C HANNA W W	11001	167	1155	TAREAD YOUT CEMEN .	
	MANNA W W	11904	107	1133	ITALOR APPL GENET	
		1986			J PLANT PHYSIOL	
	HARTMAN C L	1994			BIO-TECHNOL	
	HAUPTMANN R M	1987	6	265	PLANT CELL REP	
	HAUPTMANN R M	1988	186	602	PLANT PHYSIOL	
		1981	•	•	THEOR APPL GENET	
		1988			PLANT BREEDING	
		1998		•	PLANT BREEDING	
	HAYWARD M D	1977	79	59	Z PFLANZENZUCHT	
	HAYWARD M D	1990	1104	168	PLANT BREEDING	
		1998	•	•	J PLANT PHYSIOL	•
		•	•		•	
		11992	•		PLANT BREEDING 1990S	
		1993		•	PLANT MOL BIOL	
	HESZKY L E	1989	8	174	PLANT CELL REP	
		1982			CROP SCI	
		1994			PLANT J	
		11989			BIOL WOOL HAIR	
		2000			MOL BREE FOR CROPS 2	
	HOPKINS A A	1993	33	253	CROP SCI	
		1988			PLANT CELL REP	
		1988			PLANT CELL REP	
٠		•			•	
	HOUSLEY T L	1993	l	191	SCI TECHNOLOGY FRUCT	

HU W J HUFF D R HULBERT S H HUMPHREYS M O	11999	117	1808	INAT BIOTECHNOL	
HUFF D R	11993	186	1927	ITHEOR APPL CENET	
עוון מבטיד כ ט	11000	107	1/251	ID NAME ACAD OCT HOA	
HIMDIDEAC W O	11000	10/	14231	IP NAIL ACAD SCI USA	
HUMPHREYS M O	11992	159	1141	LUPHYTICA	
HUMPHREYS M O	11997	3	171	P 18 INT GRASSL C WI	
HUMPHREYS M W INOKUMA C ISHIDA Y JACKSON J A JACKSON J A JACKSON J A	1991	34	59	GENOME	
INOKUMA C	1996	15	1737	PLANT CELL REP	
ISHIDA Y	11996	114	1745	INAT BIOTECHNOL	
JACKSON J A	11986	ĺ	185	IPLANT TISSUE ITS AGR	
JACKSON J A	11988	1132	1351	LT PLANT PHYSTOL	
TYCKSON T Y	11000	10	1161	IDIANT CELL DED	
TACLOOMMOCEN K D	11000	1000	1101	PLANT CELL REP SCIENCE MONOGRAPHS THEORETIC	
JAGLOOTTOSEN K R	11998	1280	1104	SCIENCE	
JAUHAR P P	11993	118		IMONOGRAPHS THEORETIC	
JONES E L	11991	130	163	IRISH J AGR RES	
JONES E S	12000		48	MOL BREED FOR CROPS	
JUNG H G	1986	62	1703	J ANIM SCI	
KAEPPLER H F	11992	184	1560	ITHEOR APPL GENET	
KAO K N	11973	1212	i 207	IC INT CNRS	
KASPERBAHER M J	11985	125	11091	LCROP SCT	
KASPERBAHED M. T	11070	110	1457	ICDOD SCT	
MACREDATIED M T	11000	130	1102	LCDOD CCT	
KASPERBAUER M U	11900	120	1103	ICROP SCI	
KASUGA M	11999	T /	1287	INAT BIOTECHNOL	
KAUL K	1990	İ	13	BIOTECHNOLOGY TALL F	
KLEIN T M	1993	4	583	CURR OPIN BIOTECH	
KORTT A A	1991	195	329	EUR J BIOCHEM	
KRANS J V	1982	22	11193	CROP SCI	
KUAI B	11996	115	1804	IPLANT CELL REP	
KUBIK C	11999	139	11136	ICROP SCT	
KIIO A 'I	11003	133	11301	ICPOD SCI	
KMOK D A	11006	133	1100	LCENOMICS	
JACKSON J A JAGLOOTTOSEN K R JAUHAR P P JONES E L JONES E S JUNG H G KAEPPLER H F KAO K N KASPERBAUER M J KASPERBAUER M J KASPERBAUER M J KASPERBAUER M J KASUGA M KAUL K KLEIN T M KORTT A A KRANS J V KUAI B KUBIK C KUO Y J KWOK P Y LALLEMAND J LARKIN P J LEACH C R LEE L LEE L LEE L LEE L LEMIEUX B LINSMAIER E M LIVESEY V LO P F LOCKHART D J LOWE K W LU C LU C	11001	171	111	GENOMICS	
LALLEMAND J	11991	14	111	PLANT VAR SEEDS	
LARKIN P J	11981	160	1197	THEOR APPL GENET	
LEACH C R	1987	58	303	HEREDITY	
LEE L	1996	36	401	CROP SCI	
LEE L	1996	115	1	PLANT SCI	
LEMIEUX B	1998	4	1277	MOL BREEDING	
LINSMAIER E M	11965	118	1100	IPHYSIOL PLANTARUM	
LIVESEY V	11991	155	173	LEUDHALLO	
LO P F	11980	120	1363	ICROP SCI	
TOCKRYDA D I	13000	1405	1007	AND MIDE	
LOCKHARI D U	12000	1405	1027	IGDOD GGT	
LOWE K W	119/9	119	1397	CROP SCI	
LU C	11982	169	177	IAM J BOT	
LU C LU C Y MADSEN S	1981	59	275	THEOR APPL GENET	
LU C Y	11981	1104	311	IZ PELANZENPHYSIOL	
MADSEN S	1995	114	165	PLANT BREEDING	<
MARKERT C L	1959	45	753	PLANT BREEDING P NATL ACAD SCI USA	
MAROUSKY F J	11990	120	1125	PLANT CELL TISS ORG	
				SCIENCE	
MCALISTER F M	11998	125	1225	LAUST I PLANT PHYSTOL	
MCBRIDE K E	11005	113	1362	AUST J PLANT PHYSIOL BIO-TECHNOL	<
MCCLENDON M T	12001	10	1102	PLANT ANIMAL GENOME	\
	11984			CROP SCI	
	12000			MOL BREEDING FORAGE	
	1983			ISOZYMES PLANT GEN A	
MCNABB W C	1994	164	53	J SCI FOOD AGR	
				PLANT CELL TISS ORGA	
	2001			PLANT ANIMAL GENOME	
	2000			MOL BREED FOR CROPS	
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MILLER D A	11995			FORAGES	<
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MORRISH F M	1990	IRO	1409	THEOR APPL GENET	

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	OSER L E	11996	1 2 5	1 2 C 7	COOL SEASON FORAGE G PLANT CELL TISS ORG TRENDS ECOL EVOL	
	UCCIARELLI M	1993	33	207	PLANI CELL 1135 ORG	
M	UELLER U G	1999	14	389	PHYSIOL PLANTARUM	
M	URASHIGE T URRAY F R	1962	12	4/3	PHISIOL PLANTAROM	
M	URRAY F R	1992	233	1	MOL GEN GENET	
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N	ELSON C J I W T	1995	11	15	FORAGES	<- -
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N	IELSEN K A	1993	12	53/	PLANT CELL REP	
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N	IELSEN K A IIZEKI M	1993	1141	1589	11 PLANT PARTICL	
N	IIZEKI M	19//	158	343	J FACUL AGR HOKKAIDO	
N	ITZSCHE W	11970	5/	1199	NATURWISSENSCHAFTEN	
N	ITZSCHE W	19//		146	HAPLOIDS PLANT BREED	
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0	LESEN A	11988	ITOT	bU	LOCIENCE	
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0	PSAHLFERSTAD H G	11994	113	1 2 2 2	LEREOD ADDI CEMET	
0	PSAHLFERSTAD H G	11000	109	1161	FRIMEN ECOCYCTEM	
0	RSKOV E R RTIZ J P A	11990) 0	10EU T.O.T	ITUEOD ADDI CENET	
	ORTIZ J P A	11005	140	133	RUMEN ECOSYSTEM THEOR APPL GENET PLANT CELL TISS ORG THEOR APPL GENET	/
Ü	SUNAAVILA P PARAN I	11003	140 105	1 0 0 5	THEOR APPL GENET	
P	ARAN I	11000	1101	1101	PLANT BREEDING	
ח	ARR C H	11000	18	1289	IPLANT CELL REP	
ם	ARR C H	11989	1102	1208	IPLANT BREEDING	
ם	ARR C D DROBETTINE T	13000	1102	1384	ITHEOR APPL GENET	
r D	PARK C H PARK C H PARK C H PASAKINSKIENE I PASZKOWSKI J	11984	13	12717	EMBO J SCIENCE PLANT SCI J BIOL CHEM	
_	PATERSON A H	11995	1269	11714	SCIENCE	<
Þ	PENMETSA R V	11994	1100	1171	IPLANT SCI	
P	PENMETSA R V PEREZ M	11990	1265	16210	J BIOL CHEM	
P	PEREZ M PEREZVICENTE R PEREZ T	11993	1142	610	J PLANT PHYSIOL	
P	PEREZ T	11998	į 7	1347	MOL ECOL	
. P	PILONSMITS E A H	1995	107	125	PLANT PHYSIOL	<
	PIUS J	1993	132	91	PLANT PHYSIOL PLANT CELL TISS ORG BREEDING MULTIFUNCTI	
Р	PIUS J POLOK K	1998		157	BREEDING MULTIFUNCTI	
Р	OTRYKUS I	1995		55	GENE TRANSFER PLANTS	<
Р	POTRYKUS I	1990	8	535	BIO-TECHNOL	
P	POTRYKUS I	1986	1118	549	METHOD ENZYMOL	
Р	POTRYKUS I	1985	199	183	MOL GEN GENET	
R	RADOJEVIC I	1994	45	901	AUST J AGR RES	
R	RAJASEKARAN K	1986			THEOR APPL GENET	
		1990			PLANT BREEDING	
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		11979			PLANT CELL REP	
		2001			TRENDS BIOTECHNOL	
		1990 2000			MOL BREEDING	
		12000		1101	ANN BOT-LONDON	
		11907			AUST J BOT	<
	ROYLANCE J T	11994	134		CROP SCI	•
		11997		1231	ADV BIOMETRICAL GENE	
		1968		1359	WOOL GROWTH	
		1973	•		B FAC AGR HIROSAKI U	
		1995	140	37	PLANT CELL TISS ORG PLANT CELL TISSUE OR	<
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	1992	ΙΙΙ	368	PLANT CELL REP DEV GENET	
SAUL M W	1990	11	176	DEV GENET	
				TRENDS BIOTECHNOL	
SCHENA M	1995			SCIENCE	<
	1983	150	1225	HEREDITY	
	1997	145	11977	HEREDITY J AGR FOOD CHEM	
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-				CROP SCI	
				THEOR APPL GENET	
SIDOLI A	1993	268	21819	J BIOL CHEM	
SINGH M B	1991	88	1384	IP NATL ACAD SCI USA	
SIVADAS P	1990	9	93	PLANT CELL REP	
SKENE K G M	11983	90	1130	Z PFLANZENZUCHT	
SLEPER D A	11985	13	i 313	IPLANT BREEDING REV	
SONGSTAD D D	11986	126	1827	PLANT BREEDING REV CROP SCI	
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	119/3	190	1303		
		97		PLANT SCI	
		108		PLANT SCI	<
SPANGENBERG G	1994	88 85	509	THEOR APPL GENET	<
SPANGENBERG G	11995	185	1235	EUPHYTICA	<
SPANGENBERG G	i 1 9 9 5	1145	1693	J PLANT PHYSIOL	<
		146	1172	BIOTECHNOLOGY AGR FO	
	1995		1183	BIOTECHNOL AGRIC FOR	<
		,		MONOGRAPHS THEORETIC	
SPANGENBERG G	1998	118			
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	1998	4	1162	CELL BIOL LAB HDB	
SPANGENBERG G	1995		1293	GENE TRANSFER PLANTS	<
SPRENGER N	1995	92	11652	P NATL ACAD SCI USA	<
STADELMANN F J	11998	117	137	PLANT BREEDING	
		39	1375	ICROP SCI	
			1634	THEOR APPL GENET	
STADELMANN I U	11005	96 74	110	HEREDITY	<- -
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	1971			CHROMOSOME EVOLUTION	
STEWART C N	2000	29 37	1832	BIOTECHNIQUES	
STONE B A	1994	37	1 3 4 9	INEW ZEAL J AGR RES	
SUN G L	1999	42	420	GENOME	
	1997	140	1806	GENOME	
	1998			THEOR APPL GENET	
		90		P NATL ACAD SCI USA	
	1998			GENOME	
				THEOR APPL GENET	
	1985		•	•	
	1997		•	HORTSCIENCE	
	1990			PLANT SCI	
TAKAMIZO T	11994	28	1200	JARQ	
TAKAHASHI A	1984	36	161	PLANT SCI LETT	
	1991		11	MOL GEN GENET	
	1989		•	ANN BOT-LONDON	
	11989			BIO-TECHNOL	
	1991			PLANT CELL REP	
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	1992		•	PLANT CELL REP	
	1966		-	BOT REV	
TINGAY S	1997			PLANT J	
TOLLENAAR M	1999	39	1597	CROP SCI	
	1984	24	11037	CROP SCI	
	1984			HORTSCIENCE	
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	11985			PLANT CELL REP	
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	2001	•	•	•	
	11993		1101	PLANT CELL REP	
VANARK H F	1991	127	275	PLANT CELL TISS ORG	

VANDERMAAS H M	1994	24	401	PLANT MOL BIOL	
VANDERMEER I M	1994	6	561	PLANT CELL PLANT CELL REP PLANT CELL TISS ORG	
VANDERVALK P	1989	7	644	PLANT CELL REP	
VANDERVALK P	1995	40	101	PLANT CELL TISS ORG	<
VANDEYNZE A E	1995	1249	1349	MOL GEN GENET	<
VASIL V	1982	143	1454	BOT GAZ	
VASIL V VASIL V	1980	56	197	BOT GAZ THEOR APPL GENET BIOTECHNOLOGY	
VASIL I K VASIL V	1988	16	397	BIOTECHNOLOGY	
TANGET IA	11000	1111	1000	LO DEL ANGENDUVCIOL	
VASIL I K	1987	128	193	J PLANT PHYSIOL	
VASIL I K	1995		5	CURRENT ISSUES PLANT PLANT CELL REP	<
VASIL V	1988	7	499	PLANT CELL REP	
VASIL V	1981	68	864	AM J BOT	
VASIL V VASIL I K VASIL I K VASIL V VASIL V VASIL I K	1999		9	PLANT BIOTECHNOLOGY CROP SCI CROP SCI	
VILLAMIL C B	1982	22	786	CROP SCI	
VOGEL K P	1991	31	1388	CROP SCI	
VOGEL K P	2001	20	15	CRIT REV PLANT SCI	
VOGEL K P	1981	21	35	CROP SCI	
VOS P	1995	23	14407	NUCLEIC ACIDS RES	<
WAN C H	1996	148	718	J PLANT PHYSIOL	
WANG Z Y	2001	19	125	PLANT ANIMAL GENOME	
WANG L	1996	15	865	PLANT CELL REP	
WANG Z Y	1992	10	691	BIO-TECHNOL	
WANG Z Y.	1995	1	295	GENE TRANSFER PLANTS	<
VILLAMIL C B VOGEL K P VOGEL K P VOS P WAN C H WANG Z Y WANG L WANG Z Y WANG Z Y WANG D WANG D WANG D	1982	25	147	PLANT SCI LETT	
WANG D Y	1984	3	88	PLANT CELL REP	
WANG G L	11994	136	11421	GENETICS	
WANG G L WANG Z Y WANG G R WANG Z Y	1994	103	193	PLANT SCI J PLANT PHYSIOL	
WANG G R	1997	151	183	J PLANT PHYSIOL	
WANG Z Y				PLANT SCI	
WANG Z Y	11993	12	195	PLANT CELL REP	
WANG W	2000	120	219	SPECTROSC SPECT ANAL IN PRESS PLANT CELL	
WANG Z Y	2001	!		CURRENT ISSUES PLANT	
	1995	100	181	CURRENT ISSUES PLANT	<
WARNKE S E	11998	138	1811	CROP SCI	
WARNKE S E	12001	19	120	PLANT ANIMAL GENOME CROP SCI GRASS GENERA WORLD	
WARNKE S E	11997	3 /	1203	ICENTED MODID	
	11992	105	1005	IGRASS GENERA WORLD	
WEEDEN N F	11076	116	1 475	CAN J PLANT SCI	
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WU L	11994	1119	1126	LI AM SOC HORTIC SCI	
WU L	11978	165	1268	J AM SOC HORTIC SCI AM J BOT CROP SCI	
WU L	1984	124	1763	ICROP SCT	
		11	135	P 18 INT GRASSL C WI	
				PLANT CELL REP	
XU M	2001	19	1142	IPLANT ANIMAL GENOME	
	1991	134	1686	PLANT ANIMAL GENOME GENOME	
XU W W	11995	191	1947	THEOR APPL GENET	<
XU W W	•		1366		
	1994		1685	ITHEOR APPL GENET	
XU W W	11994	34	685 246	CROP SCI	
YANESHITA M	1993	į 87	129	THEOR APPL GENET	
	1993			INT TURFT SOC RES J	
		16	379	PLANT CELL REP	
YE X D	2001	120	205	PLANT CELL REP PLANT CELL REP	
YU T T	12000	133	[229	HEREDITAS	
ZAGHMOUT O M F	1988	123	615	HORTSCIENCE	
ZAGHMOUT O M F	1989	129	815	CROP SCI	
ZAGHMOUT O M F	1992.	111	142	CROP SCI PLANT CELL REP IN VITRO CELL DEV B	
ZAGHMOUT O M	1990	126	419	IN VITRO CELL DEV B	

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ZHANG L H	1999 98	895	THEOR APPL GENET
ZHONG H	1993 13	1	PLANT CELL REP
ZHONG H	1991 10	1453	PLANT CELL REP
ZHU Y	2001 9	145	PLANT ANIMAL GENOME

- L13 ANSWER 3 OF 7 SCISEARCH COPYRIGHT 2003 THOMSON ISI
- AN 2001:830013 SCISEARCH
- GA The Genuine Article (R) Number: 482AE
- TI The investigation of optimal bombardment parameters for transient and stable transgene expression in sorghum
- AU Able J A; Rathus C; Godwin I D (Reprint)
- CS Univ Queensland, Sch Land & Food Sci, Brisbane, Qld 4072, Australia (Reprint)
- CYA Australia
- SO IN VITRO CELLULAR & DEVELOPMENTAL BIOLOGY-PLANT, (MAY-JUN 2001) Vol. 37, No. 3, pp. 341-348.
 - Publisher: C A B I PUBLISHING, C/O PUBLISHING DIVISION, WALLINGFORD OX10 8DE, OXON, ENGLAND.
- ISSN: 1054-5476.
- DT Article; Journal
- LA English

AΒ

- REC Reference Count: 45
 - This report outlines the development of optimized particle inflow gun (PIG) parameters for producing transgenic sorghum (Sorghum bicolor (L.) Moench). Both transient and stable expression were examined when determining these parameters. The uidA reporter gene (GUS) encoding beta -glucuronidase was used in transient experiments and the green fluorescent protein (GFP) used to monitor stable expression. Initially, optimization was conducted using leaf segments, as the generation of sorghum callus in sufficiently large quantities is time-consuming. Following leaf optimization, experiments were conducted using callus, identifying a high similarity between the two tissue types (r(s) = 0.83). High levels of GUS expression were observed in both leaf and callus material when most distant from the DNA expulsion point, and using a pressure greater than 1800 kPa. A higher level of expression was also observed when the aperture of the helium inlet valve was constricted. Using the optimized conditions (pressure of 2200 kPa, distance to target tissue of 15 cm from the expulsion point, and the aperture of the helium inlet valve at one full turn), three promoters (Ubiquitin, Actin1 and CaMV 35S) were evaluated over a 72-h period using GUS as the reporter gene. A significantly higher number of GUS foci were counted with the Ubiquitin construct over this period, compared to the Actin1 and CaMV 35S constructs. Stable callus sectors (on 2 mg l(-1) bialaphos) with GFP expression were visualized for as long as 6 wk post-bombardment. Using this optimized protocol, several plants were regenerated after having been bombarded with the pAHC20 construct (containing the bar gene), with molecular evidence confirming integration.
- CC PLANT SCIENCES; CELL BIOLOGY; DEVELOPMENTAL BIOLOGY
- ST Author Keywords: transformation; GUS; green fluorescent protein; particle inflow gun (PIG)
- STP KeyWords Plus (R): GREEN FLUORESCENT PROTEIN; PARTICLE INFLOW GUN; MICROPROJECTILE BOMBARDMENT; UBIQUITIN PROMOTER; GENE-EXPRESSION; PLANT-TISSUES; TRANSFORMATION; MAIZE; DNA; MARKER

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MCELROY D
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SCHENK P M
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VAIN P
                        |1993 |33
                                    1237
                                            | PLANT CELL TISS ORG
VASIL V
                        |1992 |10
                                     | 667
                                            |BIO-TECHNOL
WAN Y C
                        |1994 |104
                                    137
                                            | PLANT PHYSIOL
ZHU H
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L13 ANSWER 4 OF 7 SCISEARCH COPYRIGHT 2003 THOMSON ISI
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AN 1999:652529 SCISEARCH

GA The Genuine Article (R) Number: 227BB

TI A new **peroxidase** cDNA from white clover: Its characterization and expression in root tissue challenged with homologous rhizobia, heterologous rhizobia, or Pseudomonas syringae

AU Crockard M A (Reprint); Bjourson A J; Cooper J E

CS QUEENS UNIV BELFAST, DEPT APPL PLANT SCI, NEWFORGE LANE, BELFAST BT9 5PX, ANTRIM, NORTH IRELAND (Reprint)

CYA NORTH IRELAND

SO MOLECULAR PLANT-MICROBE INTERACTIONS, (SEP 1999) Vol. 12, No. 9, pp. 825-828.

Publisher: AMER PHYTOPATHOLOGICAL SOC, 3340 PILOT KNOB ROAD, ST PAUL, MN 55121.

ISSN: 0894-0282.

DT Article; Journal

FS LIFE; AGRI

LA English

REC Reference Count: 27

AB Temporal reverse transcription-polymerase chain reaction (RT-PCR) expression analyses were performed on Trprx2, a new white clover **peroxidase**, with roots challenged with homologous rhizobia, heterologous rhizobia, and a pathogen, Pseudomonas syringae. Low levels of

Trprx2 expression were evident in all rhizobial treatments but in P.syringae-treated clover background expression was dramatically reduced within 1 h and was undetectable in treatments inoculated for more than 3 h, Spraying 4 mM salicylic acid onto seedlings increased Trprx2 expression. These data suggest a defensive role for Trprx2 in white clover and indicate active defense suppression by the pathogen.

CC PLANT SCIENCES; BIOTECHNOLOGY & APPLIED MICROBIOLOGY; BIOCHEMISTRY & MOLECULAR BIOLOGY

STP KeyWords Plus (R): SALICYLIC-ACID; MOLECULAR-CLONING; GENE; INFECTION; CELL; INDUCTION; SYMBIOSIS; MELILOTI; DEFENSE; ALFALFA RE

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BARON C	1995	29	107	ANNU REV GENET	<
BROWN I	1998	15 ·	333	PLANT J	
BUFFARD D	1996	12	175	WORLD J MICROB BIOT	
CHITTOOR J M	1997	10	861	MOL PLANT MICROBE IN	
COOK D	1995	7	43	PLANT CELL	<
CURTIS M D	1997	10	326	MOL PLANT MICROBE IN	
DELLEDONNE M	1998	394	585	NATURE	
DJORDJEVIC M A	1987		145	ANNU REV PHYTOPATHOL	
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FAHRAEUS G	1957	16	1374	J GEN MICROBIOL	
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LAWSON C G R	, ,	- -	93	AUST J PLANT PHYSIOL	
LIANG P	1992		•	SCIENCE	
MARTINEZABARCA F	1998		153	MOL PLANT MICROBE IN	
MAUCHMANI B			535	ANN BOT-LONDON	
MITTLER R	1998	10	461	PLANT CELL	
PENG H M	1996		1437	PLANT PHYSIOL	
PEROTTO S	1994		199	MOL PLANT MICROBE IN	
ROSS A H	1		195	PLANT SCI	<
SALZWEDEL J L	1993		127	MOL PLANT MICROBE IN	
SAVOURE A	1994	13	1093	EMBO J	
SAVOURE A	1997	11	1277	PLANT J	
SPAINK H P	1995	33	345	ANNU REV PHYTOPATHOL	<
STAEHELIN C	1992	187	1295	PLANTA	
WELINDER K G	1993		35	PLANT PEROXIDASES BI	

- L13 ANSWER 5 OF 7 SCISEARCH COPYRIGHT 2003 THOMSON ISI
- AN 97:608576 SCISEARCH
- GA The Genuine Article (R) Number: XQ342
- TI Microprojectile mediated plant transformation: A bibliographic search
- AU Luthra R (Reprint); Varsha; Dubey R K; Srivastava A K; Kumar S
- CS CENT INST MED & AROMAT PLANTS, CIMAP, PO CIMAP, LUCKNOW 226015, UTTAR PRADESH, INDIA (Reprint)
- CYA INDIA
- SO EUPHYTICA, (AUG 1997) Vol. 95, No. 3, pp. 269-294.
 Publisher: KLUWER ACADEMIC PUBL, SPUIBOULEVARD 50, PO BOX 17, 3300 AA DORDRECHT, NETHERLANDS.
 - ISSN: 0014-2336.
- DT General Review; Journal
- FS AGRI
- LA English
- REC Reference Count: 191
- AB This bibliographic search covers the literature till December, 1995 on microprojectile mediated plant transformation, plasmid construct used, and the type of expression obtained, since the inception of the concept by Sanford et al., in 1987.
- CC PLANT SCIENCES; AGRICULTURE

- ST Author Keywords: bibliography; microprojectile mediated plant transformation
- STP KeyWords Plus (R): TRANSIENT GENE-EXPRESSION; DISCHARGE
 PARTICLE-ACCELERATION; HIGH-VELOCITY MICROPROJECTILES; FERTILE TRANSGENIC
 WHEAT; BETA-GLUCURONIDASE GENE; SHOOT APICAL MERISTEMS; TOBACCO PLASTID
 GENOME; COATED GOLD PARTICLES; HELIANTHUS-ANNUUS L; MARIANA FOLLOWING
 MICROPROJECTION
- RF 95-3369 006; TRANSGENIC PLANTS; WOUND RESPONSE GENES IN TOMATO LEAVES; STABLE TRANSFORMATION; JASMONIC ACID; OCTADECANOID DEFENSE SIGNALING PATHWAY

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	(RPY)	(RVL)	(RPG)	(RWK)	
ALLEN G C ARAGAO F J L AROKIARAJ P BANSAL K C BARCELO P BECKER D BIDNEY D BILANG R BOMMINENI V R	1993 1993	5 12	603 483	PLANT CELL PLANT CELL REP	
AROKIARAJ P	11994	113	1425	PLANT CELL REP	
BANSAL K C	11992	189	15054	IP NATE ACAD SCI USA	
BARCELO P	11994	D	1200	PLANI J	
BECKER D	11000	J 1 0	1299	PLANT O	
BILANC D	11002	1 4 TO	1725	PLANT MOL BIOL	
DOMMINENT A D.	11001	4 1	1/33	LI EAD DOA	
BOMMINENI V R	11003	113	117	PLANT CELL REP	
BRAR G S BROWN D C W BRUCE W B BRUCE W B BUISING C M CAO J CARRER H CARRER H	11994	113 15	1745	IPLANT CEDE REF	
BROWN D C W	11994	137	1 4 7	IPLANT CELL TISS ORG	
BRUCE W B	11989	186	19692	PLANT CELL TISS ORG P NATL ACAD SCI USA	
BRUCE W B	11990	12	11081	IPLANT CELL	
BUISING C M	11994	1243	171	IMOL GEN GENET	
CAO J	11992	111	1586	IPLANT CELL REP	
CARRER H	11995	113	791	BIO-TECHNOL	<
CARRER H	11993	1241	149	IMOL GEN GENET	
CASAS A M	11333	190	$I \perp I \perp Z \perp Z$	IP NAIL ACAD SCI USA	
CASTILLO A M	11994	112	11366	BIO-TECHNOL	
CHAREST P J	1993	112	1189	PLANT CELL REP	
CHEN J L	1994	88	187	THEOR APPL GENET	
CASTILLO A M CHAREST P J CHEN J L CHIA T F	1994	6	441	PLANT J	
CHIA T F CHIBBAR R N CHIBBAR R N CHOWDHURY M K U CHRISTOU P CHRISTOU P	1991	34	453	GENOME	
CHIBBAR R N	1993	112	506	PLANT CELL REP	
CHOWDHURY M K U	1992	11	494	PLANT CELL REP	
CHRISTOU P	1990	1,66	379	ANN BOT-LONDON	
CHRISTOU P	1995	175	407	ANN BOT-LONDON	<
CHRISTOU P CHRISTOU P CHRISTOU P	1995	175	449	ANN BOT-LONDON BIO-TECHNOL	<
CHRISTOU P	1991	19	1957	BIO-TECHNOL	
CHRISTOU P	11989	186	17500	P NATL ACAD SCI USA	
CHRISTOU P CHRISTOU P CHRISTOU P COOLEY J CREISSEN G DANIELL H DANIELL H DEVANTIER Y A DUCHESNE L C	1988	87	671	PLANT PHYSIOL	
CHRISTOU P	1990	179	337	THEOR APPL GENET	
COOLEY J	1995	190	97	THEOR APPL GENET	<
CREISSEN G	1990	18	680	PLANT CELL REP	
DANIELL H	1990	187	88	P NATL ACAD SCI USA	
DANIELL H	1991	19	615	PLANT CELL REP	
DEVANTIER Y A	1993	71	11458	CAN J BOT	
DUCHESNE L C	1992	70	175	CAN J BOT	
DOCHESNE L C	LIAAI	110	ITAT	PLANI CELL REP	
	•			PLANT CELL REP	
		-		PLANT CELL REP	<
	•			BIO-TECHNOL	
	•		•	PLANT MOL BIOL	
			•	IN VITRO CELL DEV P	
				PLANT CELL REP	
				PLANT CELL REP BIO-TECHNOL	
			•	•	
FITCH M M M	1990	19	189	PLANT CELL REP	

		•			
FRANCHE C	11991	17	493	PLANT MOL BIOL	
FRANKS T	11991	18	471	AUST J PLANT PHYSIOL	
FROMM M E	11990	8	833	BIO-TECHNOL	
GALLOMEAGHER M			666	PLANT CELL REP	
GAMBLEY R L	11993	112 I	343 1	PLANT CELL REP	
GENGA A	i 1991	45	129	J GENET BREED	
GOFF S A	1990	19 i	2517 İ	EMBO J	
GOLDFARB B			517 İ	PLANT CELL REP	
GORDONKAMM W J				PLANT CELL	
GRAY D J	1994		179 i	PLANT CELL TISS ORG	
GUOLING N	11995	31		CELL DEV BIOL PLANT	<
HAGIO T	11991	10 i		PLANT CELL REP	
HAGIO T	i 1995	14	329	PLANT CELL REP	<
GUOLING N HAGIO T HAGIO T HAMILTON D A HARTMAN C L HARWOOD W A	1995 1992	18	211	PLANT MOL BIOL	
HARTMAN C. I.	11994	i 12 i	919	BIO-TECHNOL	
HARWOOD W A	11995	185	113	EUPHYTICA	<
HEBERT D	11993	112 1	585 1	IPLANT CELL REP	
HEIM U	11995	1 1 5 1	1/5	IPLANT CELL REP	<
HENSGENS L A M	*	122	1101	PLANT MOL BIOL	
HILL M	11995	185 I	119	EUPHYTICA	<
HUNOLD R	11994			PLANT J	
	11995			PLANT SCI	<
HUNOLD R IGLESIAS V A	1995 1994	1192 i	84	PLANTA	
IIDA A	11990	133	560	APPL MICROBIOL BIOT	
IIDA A	11995	114	539	PLANT CELL REP	<- -
מ מחדד	11991	197	1585	IPLANT PHYSIOL	
IIDA A	11990	i80 i	813	THEOR APPL GENET	
JAHNE A	11994	189 i	525	THEOR APPL GENET THEOR APPL GENET	
KAMO K	i 1995	I T T O I	TOO	LITANI OCI	<
KARTHA K K	11989	[8]	429	PLANT CELL REP	
KAUSCH A P	11995	1196	501	PLANT CELL REP PLANTA	<
KING S P	1994	30	117	IN VITRO CELL DEV	
KLEIN T M	1988	16 1	559	BIOTECHNOLOGY	
KLEIN T M	11987	327	70	NATURE	
KLEIN T M	1988	185	8502	P NATIONAL ACADEMY S	
KLEIN T M	1988	85 ·	4305	P NATL ACAD SCI USA	
KLEIN T M	1989 1994	191	440	PLANT PHYSIOL	
KNITTEL N	11994	14	81	PLANT CELL REP BIO-TECHNOL	,
KOZIEL M G	1993		194	BIO-TECHNOL	,
KNITTEL N KOZIEL M G KUEHNLE A R KUNDSEN S	1992			PLANT CELL REP	
KUNDSEN S	1991			PLANTA	
LAMBE P		108		PLANT SCI	<- -
LAPARRA H	1995			EUPHYTICA	<
LI L C	1993			PLANT CELL REP	
LI Y H	1994			PLANT CELL REP	
LOEB T A	1994			PLANT SCI	
LONSDALE D	1990			J EXP BOT	_
LOWE K	1995			BIO-TECHNOL	<
MAHN A		46		J EXP BOT	<
MARTINUSSEN I			412	PHYSIOL PLANTARUM PHYSIOL PLANTARUM	<
MARTINUSSEN I	1995				<
MCCABE D E	1993	-		BIO-TECHNOL	
MCCABE D E	11988			BIOTECHNOLOGY	
MCCOWN B H	1991			PLANT CELL REP	
MCELROY D	1991			MOL GEN GENET	
MCELROY D	11990		163	PLANT CELL THEOR APPL GENET	
MENDEL R R	1989			THEOR APPL GENET PLANT CELL REP	
MOORE P J	1994			APPL MICROBIOL BIOT	
MORIKAWA H	1989			BIO-TECHNOL	
MURRY L E	1993		•	PLANT J	
NEHRA N S	1994		285 188	PLANT CELL REP	
NEWTON R J	1992 1993			PLANT PHYSIOL	
NISHIHARA M	11333	1102	, 55 ,	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	

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NISHIHARA M OARD J H OZIASAKINS P	1995	4	341	TRANSGENIC RES	<
OARD J H	1990	92	334	PLANT PHYSIOL	
OZIASAKINS P	1993	193	185	PLANT SCI	
PEREIRA L F	1995	14	1290	PLANT CELL REP	<
PEREIRA L F PEREZVICENTE R	1993	142	610	J PLANT PHYSIOL MOL GEN GENET	
PERL A PRAKASH C S	1992	235	279	MOL GEN GENET	
RASMUSSEN J L	11994	13	212	PLANT CELL REP	
RATNAYAKA I J S	11995	14	1794	PLANT CELL REP	<
REGGIARDO M I REGISTER J C	11991	175	1237	PLANT CELL REP PLANT SCI PLANT MOL BIOL	
REGISTER J C	11994	125	1951	LATERATE WOT BIOT	_
REGISTER J C RITALA A RITALA A RITALA A ROBERTSON D ROCHANGE F ROSS A H RUSSELL D A RUSSELL D R RUSSELL J A SAGI L SAGI L SATO S SAUTTER C SCHAEFFER H J	11003	112	143E	LDIANT CELL DED	<
KITALA A	11004	174	1217	IDIANT MOI DIOI	
DOBEDTSON D	11002	110	1925	IDIANT MOL BIOL	
DOCUME F	11005	111	1674	IDIANT CELL DED	/-
ROSS A H	11995	113	1193	LANT COOL NOT	<
RUSSELL D A	11993	113	124.	IPLANT CELL REP	
RUSSELL D R	11993	112	1165	IPLANT CELL REP	
RUSSELL J A	11992	198	11050	IPLANT PHYSTOL	
SAGT I	11995	113	1481	IBIO-TECHNOL	<
SAGT L	11995	185	189	IEUPHYTICA	<
SATO S	11993	112	1408	PLANT CELL REP	
SAUTTER C	1991	9	1080	BIO-TECHNOL	
SAUTTER C	1995	85	45	EUPHYTICA	<
SCHAEFFER H J	1995	28	1205	PLANT MOL BIOL PLANT CELL REP PLANT SCI	<
SCHULZE J	1993.	12	316	PLANT CELL REP	
SCHULZE J	1995	112	197	PLANT SCI	<
SCORZA R	1995	14	589	PLANT CELL REP	<
SEKI M	1991	36	228	APPL MICROBIOL BIOT	
SEKI M	1991	17	259	PLANT MOL BIOL	
SCORZA R SEKI M SEKI M SEMERIA L SERRES R	1995	185	125	EUPHYTICA	<
SERRES R	1992	1117	1174	J AM SOC HORTIC SCI	
SOMERS D A	11992	110	11589	BIO-TECHNOL	_
SPANGENBERG G	11005	1145	1693	J PLANT PHYSIOL PLANT SCI	<
SPANGENBERG G	11000	170	1209	THEOR APPL GENET	<
SPENCER T M STAUB J M	11003	119	1601	ITHEOR APPL GENET	
	11000	11	130	IDIANT CELL	
STAUB J M STIFF C M STOGER E	11995	1 1 1 <u>4</u> 0	1243	PLANT CELL PLANT CELL TISS ORG	<
STOGER E	11995	114	1273	PLANT CELL REP	<
STOMP A M		•	-	PLANT CELL REP	,
				P NATL ACAD SCI USA	
	1992			PLANT MOL BIOL	
	1992			PLANT MOL BIOL	
TAKUMI S	1994			PLANT SCI	
TANAKA T	1995	128	1337	PLANT MOL BIOL	<
TAYLOR M G	1991	10	120	PLANT CELL REP	
TAYLOR M G	1993			PLANT CELL REP	
TOMES D T	1990	14		PLANT MOL BIOL	
	•			PLANT CELL REP	
				PLANT CELL REP	<
				PLANT PHYSIOL	
	•		184	PLANT CELL REP	
		•	1748	PLANT CELL REP	<
	•			PLANT CELL REP	<
				TRANSGENIC RES	<
	11994		•	PLANT MOL BIOL	
			•	BIO-TECHNOL BIO-TECHNOL	
	1992 1993			BIO-TECHNOL	
	11993			PLANT CELL REP	
	11994			PLANT CELL REF	
HIMITATO D E	, 1772	,	, 200	, , , , , , , , , , , , , , , , , , , ,	

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|1995 |196
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WAN Y
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                                            | PLANTA
WAN Y C
                        |1994 |104
                                   137
                                            IPLANT PHYSIOL
WANG Y C
                        |1988 |11
                                    1433
                                            | PLANT MOL BIOL
                        |1992 |87
WARKENTIN T D
                                    1171
                                            |PLANT SCI
                        |1993 |102
                                   | 1077 | PLANT PHYSIOL
WEEKS J T
                        11992 | 98
                                    1114
                                            [PLANT PHYSIOL
WILDE H D
                        |1992 |11
                                    176
                                            | PLANT CELL REP
WILMINK A
                        |1991 |97
                                    1829
                                           | PLANT PHYSIOL
YAMASHITA T
YAO J L
                        |1996 |113
                                    |175
                                           | PLANT SCI
                                    1809
                                           | PLANT MOL BIOL
YE G N
                        |1990 |15
                                    |367
YE X J
                        |1994 |119
                                           | J AM SOC HORTIC SCI
                                    | 694 | | PLANT CELL REP
YEPES L M
                        |1995 |14
                                                                    <--
ZHONG H
                        |1993 |13
                                    | 1
                                            | PLANT CELL REP
ZIMMY J
                        |1995 |1
                                    1155
                                            MOL BREEDING
                        |1994 |22
                                    |3819 |NUCLEIC ACIDS RES
ZOUBENKO O V
                                    177
                        |1995 |64
                                            |SCI HORTIC-AMSTERDAM
ZUKER A
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- L13 ANSWER 6 OF 7 SCISEARCH COPYRIGHT 2003 THOMSON ISI
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- GA The Genuine Article (R) Number: XD140
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- ANNUAL REVIEW OF PLANT PHYSIOLOGY AND PLANT MOLECULAR BIOLOGY, (MAY 1997) SO Vol. 48, pp. 297-326.
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- FS LIFE; AGRI
- English LA
- REC Reference Count: 164
 - Plant transformation is now a core research tool in plant biology and a practical tool for cultivar improvement. There are verified methods for stable introduction of novel genes into the nuclear genomes of over 120 diverse plant species. This review examines the criteria to verify plant transformation; the biological and practical requirements for transformation systems; the integration of tissue culture, gene transfer, selection, and transgene expression strategies to achieve transformation in recalcitrant species; and other constraints to plant transformation including regulatory environment, public perceptions, intellectual property, and economics. Because the costs of screening populations showing diverse genetic changes can far exceed the costs of transformation, it is important to distinguish absolute and useful transformation efficiencies. The major technical challenge facing plant transformation biology is the development of methods and constructs to produce a high proportion of plants showing predictable transgene expression without collateral genetic damage. This will require answers to a series of biological and technical questions, some of which are defined.
- PLANT SCIENCES; BIOCHEMISTRY & MOLECULAR BIOLOGY CC
- Author Keywords: plant improvement; gene transfer; transgenic plants; STtransgene expression; genetic engineering
- KeyWords Plus (R): TRANSGENIC TOBACCO PLANTS; MEDIATED GENE-TRANSFER; STP T-DNA; AGROBACTERIUM-TUMEFACIENS; MICROPROJECTILE BOMBARDMENT; FOREIGN GENES; INTELLECTUAL PROPERTY; PARTICLE BOMBARDMENT; MAIZE PLANTS; STABLE TRANSFORMATION
- 95-3369 002; TRANSGENIC PLANTS; WOUND RESPONSE GENES IN TOMATO LEAVES; RF STABLE TRANSFORMATION; JASMONIC ACID; OCTADECANOID DEFENSE SIGNALING
 - 95-2449 001; PLANT EMBRYOGENESIS; ARABIDOPSIS EMBRYO; ROOT APEX; CELL PATTERN; AXIS FORMATION

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Referenced Author (RAU)	(RPY)	(RVL)	(RPG)	(RWK)	
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·	1993 1995			AUTOMATION ENV CONTR	<
•	1995			PLANT J	<
	1989			PLANT CELL	
	1996		67	TRENDS BIOTECHNOL	
	1993			ANTISENSE RES APPL	
BARKS A H	1994			TRENDS BIOTECHNOL	
BECHTOLD N	1993	316	1194	CR ACAD SCI III-VIE	
				EUPHYTICA	<
				EMBO J	
DEIM.DII 0	11993			GENETIC ENG	
	1992		301	PLANT MOL BIOL AUST J PLANT PHYSIOL	
	11991			P INT SOC SUG TECHN	
	11996	•		PARTICLE BOMBARDMENT	
	1994 1995	,		PLANT SCI	<
	11006	15 .		MOL BREEDING	`
	11992			PLANT J	
	11993			ST VAC ULTRAV XRAY P	
	11994			MOL GEN GENET	
	1992		586	PLANT CELL REP	
CARRER H	1995	13		BIO-TECHNOL	<
	11996		1298	TRENDS BIOTECHNOL	
	1994	15	551	PLANT J CURR OPIN CELL BIOL	
	1992		629	CURR OPIN CELL BIOL	
	1995			EUPHYTICA	<- -
	1992		•	PLANT J	
	1992			PLANT J	
	11992			TRENDS BIOTECHNOL ANN NY ACAD SCI	
	1996 1994			PLANT MOL BIOL MOL G	
001(0552 0	11991	•		P NATL ACAD SCI USA	
	11995			TRENDS BIOTECHNOL	<
	11984	•		EMBO J	
	11993	•		EUPHYTICA	
			694	PLANT PHYSIOL	
DEBLOCK M	1995			PLANTA EUPHYTICA	<
DELOOSE M	1995	85	1209	EUPHYTICA	<
DRAPER J	1988	1	1	PLANT GENETIC TRANSF PLANT MOL BIOL LABFA	
DRAPER J ELLIS J R	1993	I .	1253	PLANT MOL BIOL LABFA	_
ENAYATI E	11995	13	1460	BIO-TECHNOL	<- -
ENGEL K H	1995		.	GENETICALLY MODIFIED	<
	11991		171	PLANT J BIOTECHNOLOGY	
	1994 1994	13	1326	ITRANSCENIC RES	
FIREK S	11991	1	1103	TRANSGENIC RES ADV METHODS PLANT BR	
FRANKS T	11990	18	1833	BIO-TECHNOL	
CAD A F	11990	179		PHYSIOL PLANTARUM	
GAFNI Y	11995	120	198	LETT APPL MICROBIOL	<
GAMBLEY R L	11994	121	1603	AUST J PLANT PHYSIOL	
GAMBORG O I.	11995	1	j	PLANT CELL TISSUE OR	<
GARTLAND K M A	1995	44		AGROBACTERIUM PROTOC	<- -
GATEHOUSE A M R	1992	1		PLANT GENETIC MANIPU TRENDS BIOCHEM SCI	
	1994		159	TRENDS BIOCHEM SCI	
	11996			EMBO J	
GLICK B R	1993		1165	METHODS PLANT MOL BI	
	11996	34	1.165	PLANT PHYSIOL BIOCH	
GRANT J E	11991	123	DU Q <i>l T</i>	ADV METHODS PLANT BR PLANT MOL BIOL	
	1993 1991			PLANT MOL BIOL PLANT GENETIC ENG	
GRIERSON D	11331	1	ı	The second secon	

HADI M Z HALLMAN W K	1996	15 I	500	PLANT CELL REP	
HALLMAN W K HAMILTON C M	1996	14	35	BIOTECHNOLOGY	
UNMTITCH C M	1996 1	93 1	99/5 1	P NATE ACAD SCI USA	
HAQ T A	1995	268	/14	SCIENCE	<
HENSGENS L A M	1992	20	921	PLANT MOL BIOL	
HERBERS K	1996	14	19	TRENDS BIOTECHNOL PLANT PHYSIOL PLANT J	
HICKS G R HIEI Y H	1995	107	1055	PLANT PHYSIOL	<
HIEI Y	1994	6	271	PLANT J	
				TRANSGENIC PLANTS	
HOOYKAAS P J J	1992	19	15	PLANT MOL BIOL	
HORSCH R B	1993	342 223	287	PHILOS T ROY SOC B	
HORSCH R B	1984	223	496	SCIENCE	
HOYLE R	1996	14	680	NAT BIOTECHNOL	
ISHIDA Y JAHNE A JANSSEN B J JASIN M JENES B	1996	14	745	NAT BIOTECHNOL	
JAHNE A	1995	85	35	EUPHYTICA	<
JANSSEN B J	1989	14	61	PLANT MOL BIOL	
JASIN M	1996	93	8804	P NATL ACAD SCI USA	
JENES B KARP A KEEGSTRA K KIM J W	1993	1	125	TRANSGENIC PLANTS	<
KARP A	1995	85	295	EUPHYTICA	<
KEEGSTRA K	1995	93	157	PHYSIOL PLANTARUM	<
KIM J W	1996	117	131	PLANT SCI	
KJELDGAARD R H	1994	6	1524	PLANT CELL	
KLEIN B	1990		79	PROGR PLANT CELLULAR	
KONCZ C	1989	86	8467	P NATL ACAD SCI USA	
KJELDGAARD R H KLEIN B KONCZ C KOZIEL M G KOZIEL M G KUNG S	1993	11	194	BIO-TECHNOL	
KOZIEL M G	1996		164	ENG PLANTS COMMERCIA	
KUNG S	1993	1		TRANSGENIC PLANTS EUPHYTICA THEOR APPL GENET	
LAPARRA H	1995	85	63	EUPHYTICA	<
LEBEL E G	1995	91	899	THEOR APPL GENET	<
T.T H O	11996	114	1736	INAT BIOTECHNOL	
LICHTENSTEIN M	1994	76	913	CELL	
LIN J J	1995	109	171	CELL PLANT SCI TRANSGENIC RES	<- -
LINDSEY K	1993	2	33	TRANSGENIC RES	
		22		AUST J PLANT PHYSIOL	<
LUEHRSEN K R	1991	225	181	MOL GEN GENET	
LUEHRSEN K R	1994	13	454	PLANT CELL REP PLANT MOL BIOL	
MAAS C	1991	16	1199	PLANT MOL BIOL	
MAHESWARAN G	1992	139	560	J PLANT PHYSIOL	<
MATZKE M A					<
MCBRIDE K E	1995	13	1362	BIO-TECHNOL BIO-TECHNOL	<
	1993				
				NAT BIOTECHNOL	_
	11995			EUPHYTICA	<
	1995			TRENDS BIOTECHNOL	<
· · · · ·	1995		•	TRENDS BIOTECHNOL	<- -
	•	•	•	ADV METHODS PLANT BR	
	11996			PLANT CELL	<
	•	•	1105	MOL BREEDING PHYSIOL PLANTARUM	<
	1990				
	1990			PHYSIOL PLANTARUM	
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	11995		•	TRENDS BIOTECHNOL	<
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	1984			EMBO J	
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	11996			NAT BIOTECHNOL	
	1991	•	•	P NATL ACAD SCI USA	
	11991	•	205	ANNU REV PLANT PHYS	/
	11995		•	GENE TRANSFER PLANTS	<
	1996	-	•	P NATL ACAD SCI USA	
RICHARDSON J P	1993	Z g	11	CRIT REV BIOCHEM MOL	

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11993 | 1
                                |147 |TRANSGENIC PLANTS
RITCHIE S W
                     |1995 |43 |193 |AUST J BOT
ROSS A H
RUSSELL D R
                     |1993 |12 |165 | PLANT CELL REP
SCHOPKE C
                     | 1996 | 14 | 731 | NAT BIOTECHNOL
                 |1995 |13 |362 |TRENDS BIOTECHNOL
SHAH D M
                     |1994 |5
                                [227 | PLANT J
SHEN W H
                     |1989 |338 |274 |NATURE
SHIMAMOTO K
                    |1995 |40 |1
                                      | PLANT CELL TISS ORG
SONGSTAD D D
SPIKER S
                     |1996 |110 |15
                                       | PLANT PHYSIOL
                   |1995 |268 |661 |SCIENCE
                                                              /--
STASKAWICZ B J
                     |1995 |268 |656 |SCIENCE
                                                              <--
                                |339 |TRANSGENIC PLANTS
                     |1990 |1
SUN S S M
                     |1990 |79 |140 |PHYSIOL PLANTARUM
TEPFER D
                   |1994 |5 |152 | CURR OPIN BIOTECH
THEOLOGIS A
                     |1995 |3 |225 |MOL BIOTECHNOL
                                                              <--
TURNER R
                 | 1990 | 220 | 245 | MOL GEN GENET | 1996 | 31 | 677 | PLANT MOL BIOL | 1994 | 3 | 159 | TRANSGENIC RES | 1992 | 10 | 12 | PLANT MOL BIOL REP | 1995 | | 79 | METHODS PLANT MOL BI <-- | 1994 | | | PLANT CELL TISSUE CU
VANCANNEYT G
VANDERGRAAFF E
VANDERHOEVEN C
VANWORDRAGEN M F
VARNER J E
VASIL I K
                  | 1995 | 13 | 587 | BIO-TECHNOL | 1995 | 13 | 1324 | TRENDS BIOTE
VONBODMAN S B
                                                              <--
                     |1995 |13 |324 |TRENDS BIOTECHNOL
                                                              <--
WALDEN R
                 |1994 |104 |37 | PLANT PHYSIOL
WAN Y C
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     The Genuine Article (R) Number: WQ788
     A peroxidase gene promoter induced by phytopathogens and methyl
     jasmonate in transgenic plants
     Curtis M D; Rae A L; Rusu A G; Harrison S J; Manners J M (Reprint)
ΑU
     UNIV QUEENSLAND, COOPERAT RES CTR TROP PLANT PATHOL, JOHN HINES BLDG,
CS
     BRISBANE, QLD 4072, AUSTRALIA (Reprint); UNIV QUEENSLAND, COOPERAT RES CTR
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     CUNNINGHAM LAB, ST LUCIA, QLD 4067, AUSTRALIA
CYA AUSTRALIA
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The expression of two closely related peroxidase isogenes, Shpx6a and Shpx6b, of the legume Stylosanthes humilis was studied using isogene-specific reverse transcriptase PCR techniques. Results indicated that transcripts of both genes were rapidly induced following inoculation with the fungal pathogen Colletotrichum gloeosporioides, wounding and treatment with the defense regulator methyl jasmonate (MeJA). In contrast, treatment of leaves of S. humilis with abscisic acid (ABA) and salicylic acid (SA) did not induce transcripts of either isogene. A genomic clone containing the Shpx6b gene was isolated and 594 bp of 5' sequence upstream of the translation start was fused in frame to the coding region of the uidA reporter gene and introduced into tobacco. Expression from the Shpx6b promoter in transgenic plants was determined by histochemical staining and quantitative assays of beta-glucuronidase (GUS). In transgenic tobacco, GUS expression was detected in cotyledons, vascular cells of young leaves, anthers, pollen, and the stigma and style. Wounding of the tobacco plants produced very localized GUS staining. Much more extensive staining for GUS was observed following inoculation of tobacco leaves with conidia of the fungal pathogen Cercospora nicotianae and the inoculation of wound sites with mycelium of the Oomycete pathogen Phytophthora parasitica var. nicotianae. Treatment of mature leaves with methyl jasmonate induced GUS activity while treatment with ABA, SA, and H2O2 had no effect. A similar strong induction of GUS activity was measured in young transgenic seedlings germinated on MeJA while some, but much weaker, induction of GUS activity was observed in seedlings treated with SA. The sequence of the promoter contained motifs homologous to putative cis elements in other plant genes responsive to MeJA. The Shpx6b gene is the first plant peroxidase gene shown to be induced by both microbial pathogens and MeJA and its promoter will be useful for investigations of signaling processes during fungal infection and for the expression of foreign gene

products at infection sites.

CC PLANT SCIENCES; BIOTECHNOLOGY & APPLIED MICROBIOLOGY; BIOCHEMISTRY & MOLECULAR BIOLOGY

ST Author Keywords: Nicotiana tabacum

KeyWords Plus (R): PATHOGENESIS-RELATED PROTEIN-1A; LEGUME STYLOSANTHES HUMILIS; RNA-POLYMERASE-II; F-SP HORDEI; COLLETOTRICHUM-GLOEOSPORIOIDES; ERYSIPHE-GRAMINIS; MESSENGER-RNAS; 2,6-DICHLOROISONICOTINIC ACID; ACQUIRED-RESISTANCE; SALICYLIC-ACID

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